



# EKURHULENI METROPOLITAN MUNICIPALITY

## Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2016/11/03

SAMPLE POINT	QUARTER	ELEMENT													
		AL_TOT	COD	CONDUCTIVITY	FCOLI	FE_TOT	MN_TOT	N	NA	NA_TOT	NOX	P	PH	SS	SULPHATES
BENONI AMATAPAN OUTLET	1	0.2	27.5	57.7	596.7	0.8	0.1	0.8	50.4	45.4	3.2	0.1	7.3	20.2	71.4
	2	0.2	32.0	46.3	1 005.7	0.9	0.1	0.8	38.4		2.4	0.2	6.9	17.7	48.3
	3	0.2	23.7	58.0	526.7	0.6	0.1	0.9	45.1		3.2	0.1	7.1	18.7	71.3
	4	0.2	16.3	64.0	142.3	0.9	0.1	1.0	67.7		5.9	0.1	7.6	11.7	92.7
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	0.1	21.1	27.7	463.8	0.4	0.1	0.4	18.2		0.3	1.6	7.4	10.6	31.3
	2	0.2	24.7	26.0	316.7	0.5	0.2	0.1	17.5		0.1	0.1	7.3	9.7	29.0
	3	0.2	27.3	26.0	913.3	0.4	0.1	0.3	16.2		0.5	0.1	7.3	17.0	27.3
	4	0.1	11.3	31.0	161.3	0.3	0.1	0.8	20.9		0.3	4.5	7.6	5.0	37.7
BENONI HOMESTEAD DAM	1	0.2	26.0	27.6	833.2	0.4	0.1	0.4	21.5	14.7	0.3	0.1	7.7	12.5	32.3
	2	0.1	55.3	23.3	390.0	0.3	0.1	0.2	16.3		0.3	0.1	7.5	12.7	25.0
	3	0.1	13.3	28.3	671.0	0.2	0.1	0.5	22.8		0.3	0.1	7.8	19.0	32.0
	4	0.1	11.3	31.0	3.3	0.3	0.1	0.5	25.3		0.1	0.1	7.8	5.0	36.7
BENONI HOMESTEAD LAKE INLET	1	0.6	20.2	23.4	3 947.5	0.8	0.1	0.4	15.6	15.8	0.3	0.1	7.5	10.5	27.2
	2	0.4	36.0	20.0	7 133.3	0.6	0.1	0.2	12.4		0.1	0.1	7.5	5.0	25.0
	3	0.5	14.0	23.3	1 133.3	0.9	0.1	0.2	15.9		0.4	0.1	7.7	9.7	27.3
	4	0.4	13.0	26.0	5 140.7	0.6	0.1	0.7	18.6		0.3	0.1	7.3	6.7	33.3
BENONI KLEINFONTEIN LAKE INLET	1	0.3	20.7	55.3	26 303.6	0.8	0.1	0.4	44.6	54.3	2.7	0.1	7.7	15.4	69.4
	2	0.2	25.0	47.0	28 400.0	1.0	0.1	0.3	40.8		0.8	0.1	8.1	12.3	55.3
	3	0.1	21.0	54.0	30 896.7	0.4	0.1	0.2	42.7		3.1	0.1	7.7	8.0	65.7
	4	0.1	7.3	60.7	1 150.0	0.2	0.1	0.7	50.3		5.1	0.1	7.5	5.0	89.0
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	0.2	31.7	39.9	217.5	0.5	0.2	0.3	31.7	31.8	1.0	0.1	7.6	20.1	41.5
	2	0.1	19.0	50.0	299.3	0.3	0.1	0.2	40.0		1.9	0.1	7.6	6.7	37.3
	3	0.1	21.0	30.0	60.7	0.4	0.1	0.1	21.9		0.3	0.1	7.1	13.0	33.7
	4	0.2	47.3	39.0	121.7	0.7	0.4	0.7	33.2		1.0	0.1	7.9	29.7	49.0
BENONI MIDDLE LAKE: N12 BETWEEN BUNYAN AND TOM JONES ST	1	0.1	28.1	43.6	842.2	0.6	0.4	0.7	32.0		2.4	0.1	7.4	9.0	42.1
	2	0.1	20.0	47.0	530.0	0.6	0.2	0.2	37.9		4.6	0.1	7.3	12.0	40.7
	3	0.1	54.3	53.0	153.3	0.6	0.3	1.1	34.9		2.2	0.2	7.3	10.0	54.3
	4	0.1	10.0	30.7	1 843.3	0.6	0.6	0.7	23.1		0.5	0.1	7.6	5.0	31.3
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	0.7	43.8	24.5	1 029.5	0.9	0.1	0.5	16.6	19.7	0.4	0.4	7.3	35.7	32.0
	2	0.7	56.0	22.0	3 693.3	0.9	0.1	0.3	13.7		0.2	1.3	7.5	17.7	30.0
	3	0.4	35.0	22.7	48.7	0.5	0.1	0.7	16.6		0.7	0.1	7.2	41.0	32.0
	4	0.5	41.7	25.3	19.7	0.8	0.1	0.4	19.4		0.2	0.1	7.0	30.0	31.7
BENONI RYNFIELD INLET	1	0.1	25.7	35.4	7 920.4	0.3	0.1	0.6	35.4		0.4	0.1	7.2	17.4	20.1
	2	0.1	48.0	30.0	580.0	0.3	0.1	0.1	31.5		0.1	0.1	7.1	34.0	22.3
	3	0.0	6.7	41.0	17 401.0	0.4	0.1	1.4	39.4		0.1	0.1	6.8	5.0	13.7
	4														
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	0.4	1 910.2	57.3	3 047.3	1.0	0.1	2.4	53.1	75.8	1.3	0.2	7.7	904.9	62.2
	2	0.4	6 598.0	50.0	3 400.0	1.8	0.2	0.1	46.4		0.2	0.2	7.7	3 241.3	45.7
	3	0.3	273.7	50.3	2 036.7	0.6	0.1	1.1	53.0		1.1	0.3	7.8	48.0	62.7
	4	0.6	68.7	60.3	1 976.7	1.0	0.1	3.8	59.9		2.2	0.2	7.6	19.7	69.7
BRAKPAN JAN SMUTS DAM NEXT TO WATER CARE WORKS - END OF PAVED ROAD	1	0.4	76.8	60.1	7 114.5	0.9	0.1	2.6	56.4	46.2	1.7	0.2	8.0	40.4	63.0
	2	0.4	135.7	64.7	24 843.3	1.0	0.1	0.6	55.2		0.8	0.3	7.8	76.7	50.3
	3	0.4	40.0	51.3	269.7	0.8	0.1	1.1	53.7		1.6	0.2	8.1	24.7	61.0

Quarter 1: 2015/10/01 - 2016/12/31  
 Quarter 3: 2016/04/01 - 2016/06/30





Quarter 2: 2016/01/01 - 2016/03/31  
 Quarter 4: 2016/07/01 - 2016/09/30

Ideal
 Tolerable
 Acceptable
 Unacceptable

SAMPLE POINT	QUARTER	ELEMENT													
		AL_TOT	COD	CONDUCTIVITY	FCOLI	FE_TOT	MN_TOT	N	NA	NA_TOT	NOX	P	PH	SS	SULPHATES
WATER CARE WORKS - END OF PAVED	4	0.4	61.3	60.0	36.7	0.8	0.1	3.6	60.3		2.4	0.1	7.9	28.0	73.0
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	1.0	125.5	59.2	6 079.0	2.6	0.1	2.2	56.4	44.8	1.9	0.2	7.8	65.5	62.0
	2	0.5	177.0	54.7	2 137.7	1.1	0.1	0.8	49.0		0.7	0.3	8.0	92.7	49.7
	3	0.5	38.3	51.7	18 086.7	1.2	0.1	1.4	55.6		1.5	0.2	7.9	28.0	60.3
	4	2.4	214.0	60.3	2 019.7	7.0	0.4	3.0	64.7		3.2	0.1	7.7	108.7	67.7
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	0.4	1 794.5	54.0	3 973.9	1.0	0.1	2.6	49.8	48.8	1.3	0.2	7.8	875.2	59.9
	2	0.3	6 148.3	49.7	6 233.3	1.6	0.1	0.3	36.9		0.5	0.2	7.3	3 111.7	42.7
	3	0.3	311.3	50.0	4 006.7	0.8	0.1	0.7	52.0		1.2	0.2	8.0	53.3	60.7
	4	0.6	57.0	60.0	1 154.3	1.0	0.1	3.9	60.5		1.9	0.2	7.9	37.0	69.7
BRAKPAN JAN SMUTS DAM STORMWATER INFLOW INTO QUARRY OF BEDFORD STREET	1	0.4	211.1	45.9	1 296 083.4	0.7	0.1	8.5	43.5	21.0	1.0	0.9	7.6	79.5	43.9
	2	0.2	100.3	45.0	1 302 333.4	0.5	0.1	5.6	48.4		0.9	0.5	7.1	46.7	45.3
	3	0.2	97.0	45.0	1 327 333.4	0.3	0.1	9.2	33.6		1.2	0.8	8.0	35.3	43.7
	4	1.1	553.3	56.3	1 180 000.0	1.6	0.1	9.8	60.3		1.4	1.3	8.0	211.0	51.7
BRAKPAN WATER FROM JAN SMUTS DAM ENTERING BLESBOKSPRUIT OF HOSPITAL ROAD	1	0.5	64.5	53.6	913.7	1.1	0.1	2.8	53.8	39.8	1.6	0.2	7.8	41.5	70.3
	2	0.4	124.0	46.3	3 023.3	1.0	0.1	0.9	48.5		0.9	0.3	7.7	73.3	37.3
	3	0.4	29.7	44.0	140.0	0.9	0.1	2.5	51.4		1.3	0.3	7.8	16.0	49.7
	4	0.9	56.3	60.3	148.3	1.8	0.2	4.1	61.6		2.3	0.1	7.8	55.0	125.7
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	0.3	20.3	68.2	27.2	0.2	0.2	0.5	79.5	125.3	0.7	0.1	7.8	7.5	100.9
	2	0.4	20.7	74.0	62.0	0.3	0.2	1.5	67.6		0.8	0.1	7.6	13.3	105.7
	3	0.2	15.3	60.3	12.3	0.2	0.2	0.1	77.0		0.2	0.1	7.6	5.0	76.3
	4	0.2	19.7	67.7	15.3	0.2	0.3	0.1	93.9		1.4	0.1	7.9	5.0	117.7
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	0.4	24.2	75.4	101.2	0.7	1.0	0.3	101.5	192.2	0.2	0.2	8.0	14.2	107.5
	2	0.8	44.3	89.7	230.0	1.9	2.8	0.4	124.9		0.1	0.3	7.8	32.7	154.0
	3	0.2	12.0	61.7	11.3	0.2	0.3	0.3	74.5		0.1	0.1	8.2	5.0	90.7
	4	0.2	14.0	73.7	32.7	0.2	0.2	0.1	105.0		0.2	0.1	8.0	8.0	98.0
SPRINGS ALEXANDA DAM OUTFLOW	1	0.4	22.2	48.7	92.9	0.7	0.1	0.5	41.0	40.0	0.3	0.1	8.0	20.1	61.2
	2	0.7	39.7	48.0	58.0	1.1	0.3	0.2	36.4		0.1	0.1	7.8	39.0	48.7
	3	0.5	17.3	42.0	25.3	0.8	0.2	1.1	34.3		0.4	0.1	8.4	19.0	56.3
	4	0.2	17.0	48.7	44.0	0.3	0.1	0.4	52.2		0.6	0.1	7.9	12.3	67.0
SPRINGS ALEXANDER DAM INFLOW	1	0.7	31.7	48.2	252.7	1.0	0.2	0.2	41.7	42.1	0.3	0.1	7.7	45.4	75.5
	2	1.4	40.0	48.0	186.7	2.3	0.4	0.2	41.7		0.2	0.1	7.5	122.3	101.0
	3	0.8	42.0	42.0	510.3	1.1	0.2	0.3	33.7		0.3	0.1	8.2	32.0	57.0
	4	0.2	26.3	46.3	36.3	0.3	0.1	0.2	49.6		0.5	0.1	7.4	7.0	67.0
SPRINGS PAST COWLESDAM	1	1.9	39.6	53.6	982.2	3.3	0.6	0.7	33.8	57.3	0.5	0.1	7.7	93.8	80.0
	2	1.9	57.0	48.3	143.3	3.1	0.7	0.5	39.0		0.4	0.2	7.5	72.7	55.0
	3	4.2	40.0	39.7	3 103.3	7.1	1.1	0.5	26.3		0.4	0.1	7.6	185.7	55.3
	4	1.1	15.7	44.0	208.7	2.9	0.7	1.4	36.1		0.3	0.1	7.7	101.0	42.3

Quarter 1: 2015/10/01 - 2016/12/31  
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Quarter 2: 2016/01/01 - 2016/03/31  
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 Ideal
 Tolerable
 Acceptable
 Unacceptable