



EKURHULENI METROPOLITAN MUNICIPALITY

Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2016/05/03

SAMPLE POINT	QUARTER	ELEMENT													
		AL_TOT	COD	CONDUCTIVITY	FOOLI	FE_TOT	MN_TOT	N	NA	NA_TOT	NOX	P	PH	SS	SULPHATES
BENONI AMATAPAN OUTLET	1	0.2	30.0	55.0	94.0	0.4	0.1	0.5		41.0	2.2	0.2	7.8	16.3	72.7
	2	0.3	10.0	65.0	863.5	0.7	0.1	0.3		45.3	4.1	0.1	8.0	16.5	53.5
	3	0.4	43.0	65.0	770.0	1.1	0.1	0.2		45.4	0.6	0.2	7.5	39.0	74.0
	4	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
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	0.1	19.7	29.7	34 426.7	0.3	0.0	0.7		19.4	0.3	0.1	8.2	5.0	32.0
	2	0.1	18.5	33.5	1 360.0	0.6	0.2	1.5		19.6	0.9	0.1	8.2	7.5	55.5
	3														
	4	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
BENONI HOMESTEAD DAM	1	0.7	21.3	28.3	40.7	1.1	0.2	0.5		18.6	0.4	0.1	8.2	38.0	29.0
	2	0.2	13.5	29.5	530.5	0.3	0.1	0.6		11.4	0.6	0.1	8.2	10.0	27.0
	3	0.3	23.0	28.0	2 986.0	0.6	0.1	0.7		14.7	0.6	0.1	7.7	14.0	37.0
	4	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
BENONI HOMESTEAD LAKE INLET	1	0.2	7.0	22.7	586.7	0.4	0.0	0.3		13.9	0.3	0.1	8.2	10.7	27.7
	2	0.9	11.0	26.0	210.0	0.9	0.1	0.2		13.6	0.1	0.1	8.5	18.0	33.0
	3	1.5	16.5	24.5	1 600.0	1.3	0.2	0.7		15.8	0.6	0.1	7.6	26.0	21.0
	4	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
BENONI KLEINFONTEIN LAKE INLET	1	0.1	31.7	55.0	118 646.7	0.6	0.1	0.6		45.3	2.7	0.3	7.8	24.7	65.3
	2	0.2	5.0	61.5	4 550.0	0.6	0.1	0.6		47.8	2.9	0.1	8.1	7.5	62.0
	3	0.9	34.0	61.5	54 000.0	2.3	0.4	0.1		54.3	1.5	0.1	7.6	46.5	66.5
	4	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
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	0.5	38.3	32.3	16 683.7	1.0	0.3	0.5		19.9	0.4	0.1	8.1	63.0	38.0
	2	0.6	33.0	41.0	30.5	1.4	0.3	0.3		25.4	0.6	0.2	8.3	110.5	43.0
	3	0.5	55.0	42.0	730.0	1.3	0.6	0.1		31.8	0.2	0.1	7.9	53.0	55.0
	4	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
BENONI KORSMAN BIRD SANCTUARY	1	0.2	54.3	133.3	10 411.3	0.5	0.2	2.1		127.6	3.5	0.3	7.7	21.7	37.0
	2	0.2	13.0	128.0	2 450.0	0.3	0.1	0.9		63.3	12.1	0.1	7.8	8.0	45.5
	3	0.3	5.0	174.0	800.0	0.2	0.1	2.1		121.6	6.6	0.2	7.6	15.0	57.0
	4	0.3	20.0	111.3	2 740.0	0.5	0.2	0.4	96.1		3.1	0.1	7.3	12.0	63.0
BENONI LEEUPAN OUTLET DALPARK EXT6	1	0.5	26.7	57.3	286.3	0.4	0.1	0.8		43.6	1.2	0.2	7.9	13.7	63.3
	2	0.5	53.0	87.0	110.0	0.7	0.2	0.5		63.4	0.1	1.6	8.2	19.0	85.0
	3	1.6	111.5	114.0	965.0	1.2	0.2	0.2		90.1	0.6	1.3	8.0	77.0	90.0
	4	0.8	57.5	98.0	5 250.0	1.1	0.2	0.6	100.6		2.0	0.2	7.6	32.5	102.0
BENONI MIDDLE LAKE: N12 BETWEEN BUNYAN AND TOM JONES ST	1	0.1	12.0	34.3	120 073.3	0.3	0.1	0.7		11.4	1.0	0.3	7.8	5.0	32.7
	2	0.1	5.0	31.0	1 825.0	0.4	0.2	0.2		14.9	0.6	0.1	7.9	5.0	28.5
	3														
	4	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
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	0.3	13.3	27.0	204.7	0.4	0.0	0.5		14.8	0.8	0.1	8.0	27.7	23.7
	2	0.6	25.0	30.0	29.5	0.6	0.0	1.6		14.4	0.4	0.1	8.2	11.0	28.0
	3	1.4	42.0	29.5	19.5	1.5	0.1	0.7		19.7	0.6	0.2	7.3	63.5	35.5
	4	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
BENONI RYNFIELD DAM: SAREL CILLIERS ST	1	0.4	20.7	25.7	203.0	0.4	0.0	0.6		14.4	0.6	0.1	8.0	30.7	25.3
	2	0.6	31.5	28.5	25.5	0.7	0.0	1.5		13.7	0.4	0.1	8.2	15.0	28.0
	3	1.2	41.0	29.0	24.5	1.4	0.1	0.2		15.4	0.6	0.4	7.2	63.5	34.5

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

Quarter 2: 2015/07/01 - 2015/09/30
 Quarter 4: 2016/01/01 - 2016/03/31

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	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	4	0.8	51.7	21.7	2 596.7	1.0	0.1	0.3	14.0		0.2	0.1	7.6	15.0	29.7	
BENONI RYNFIELD INLET	1	0.1	5.0	27.3	52.7	0.2	0.1	0.4		18.3	0.3	0.1	7.9	7.7	10.7	
	2	0.2	9.5	28.5	462.0	0.2	0.0	0.6		12.3	1.8	0.2	8.2	8.0	33.0	
	3	0.2	16.0	35.0	1 500.0	0.2	0.1	0.1			2.3	0.1	8.6	5.0	33.0	
	4	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	
BENONI WATTVILLE LEEUPAN INLET DUBE ST	1	0.1	16.0	50.3	5 234.7	0.2	0.1	2.1		36.5	3.3	0.2	7.8	9.7	73.3	
	2	0.1	19.5	68.0	40 500.0	0.2	0.1	4.7		33.3	2.7	0.3	7.9	8.5	85.5	
	3	0.3	5.0	56.5	69 500.0	0.3	0.1	3.9		25.0	3.8	0.7	7.4	13.5	86.0	
	4	0.2	143.0	57.5	4 975 000.0	0.4	0.2	6.6	46.2		2.5	0.7	7.7	56.5	77.0	
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	0.2	40.0	56.7	463.3	0.5	0.0	3.7		36.5	2.1	0.6	8.5	31.0	55.0	
	2	0.5	45.5	73.0	365.0	0.8	0.1	8.4		52.6	1.5	0.3	7.7	22.5	71.0	
	3	0.3	95.5	74.0	5 640.0	0.6	0.1	5.7		75.8	1.7	0.2	7.8	13.5	75.0	
	4	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	
BRAKPAN JAN SMUTS DAM NEXT TO WATER CARE WORKS - END OF PAVED ROAD	1	0.3	1 905.3	54.0	15 576.7	0.9	0.1	3.8		40.0	2.1	0.3	8.2	1 170.3	51.0	
	2	0.8	46.0	73.0	248.5	1.4	0.1	9.3		45.7	1.5	0.3	7.9	19.0	73.0	
	3	0.6	67.0	66.5	1 405.0	1.0	0.1	6.2		46.2	2.0	0.2	8.4	28.0	70.0	
	4	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	
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	0.2	46.3	58.0	1 660.0	0.5	0.0	4.3		32.9	2.2	0.4	8.0	43.3	56.0	
	2	0.4	42.5	72.5	95.5	0.9	0.1	9.3		53.0	1.5	0.3	7.8	15.0	75.5	
	3	0.2	46.0	75.5	68.5	0.4	0.1	4.6		44.8	2.0	0.1	7.6	16.0	74.5	
	4	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	
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	0.3	629.7	53.0	15 680.0	0.6	0.0	3.4		43.6	1.9	0.3	8.0	751.0	49.0	
	2	0.4	40.5	73.0	435.0	0.7	0.1	9.1		47.3	1.4	0.3	7.9	23.0	72.0	
	3	0.3	95.0	57.5	4 765.0	0.4	0.0	6.6		48.8	1.7	0.2	8.1	10.5	70.0	
	4	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	
BRAKPAN JAN SMUTS DAM STORMWATER INFLOW INTO QUARRY OF BEDFORD STREET	1	0.1	45.7	39.0	43 100.0	0.2	0.0	4.9		25.0	2.5	0.4	7.9	21.0	40.3	
	2	0.4	32.0	55.0	4 255.0	0.7	0.1	5.6		37.8	1.6	0.3	7.9	19.0	52.0	
	3	0.2	93.7	37.3	1 374 666.6	0.4	0.1	9.4	8.3	21.0	0.4	0.8	7.4	25.0	35.0	
	4	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	
BRAKPAN WATER FROM JAN SMUTS DAM ENTERING BLESBOKSPRUIT OF HOSPITAL ROAD	1	0.3	56.0	57.3	1 644.3	0.7	0.0	3.7		49.1	2.2	0.3	8.0	36.3	51.7	
	2	0.4	44.5	72.5	5 152.5	1.0	0.1	9.0		49.5	1.5	0.3	7.8	24.5	68.5	
	3	0.2	39.5	69.0	58.0	0.6	0.1	4.4		39.8	2.3	0.1	8.1	11.5	67.5	
	4	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	
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	0.4	21.0	70.3	14.3	0.4	0.1	0.4		63.8	0.3	0.1	8.1	10.7	102.7	
	2	0.3	40.5	76.0	5.0	0.3	0.2	0.2		66.3	0.2	0.1	8.4	7.5	116.5	
	3	0.2	36.0	76.0	3.0	0.1	0.1	0.1		125.3	0.1	0.1	8.3	5.0	110.0	
	4	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	
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	0.1	29.5	74.0	168.0	0.3	0.1	0.4		95.7	0.3	0.1	7.9	5.0	96.0	
	2	0.1	34.0	91.0	62.0	0.2	0.2	0.3		122.6	0.6	0.3	8.1	5.0	54.5	
	3	0.1	31.0	79.0	190.0	0.3	0.3	0.4		192.2	0.3	0.4	8.0	5.0	47.0	
	4	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	
NIGEL PIET VAN WYK PAN OFF ACCESSROAD FROM BALFOURROAD	1	0.2	48.7	226.0	26.0	0.1	0.0	0.2		235.2	0.2	0.1	8.2	19.3	101.7	
	2	0.2	64.0	243.0	22.0	0.2	0.1	0.2		250.4	0.1	0.1	8.2	13.0	108.5	
	3	0.3	51.0	240.0	43.0	0.1	0.1	0.4		548.5	0.1	0.1	8.3	15.0	117.0	
	4	0.2	41.5	173.5	134.5	0.3	0.5	0.3	154.6		0.2	0.1	8.6	15.5	128.0	
NIGEL SPAARWATER PAN OFF R550	1	0.4	21.0	40.7	93.3	0.3	0.0	1.4		31.1	0.6	0.1	7.7	11.7	50.0	
	2	0.2	107.0	160.0	320.5	0.7	2.3	2.3		62.5	1.7	0.1	7.3	10.5	696.0	
	3	0.3	22.5	46.5	5 400.0	0.2	0.1	0.9		27.4	1.3	0.1	8.5	11.5	67.5	
	4	0.5	30.3	45.3	2 242.3	0.5	0.1	1.3	44.8		0.6	0.1	7.7	7.3	54.3	

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





Quarter 2: 2015/07/01 - 2015/09/30
Quarter 4: 2016/01/01 - 2016/03/31

 Ideal
 Tolerable
 Acceptable
 Unacceptable

SAMPLE POINT	QUARTER	ELEMENT													
		AL_TOT	COD	CONDUCTIVITY	FCOLI	FE_TOT	MNL_TOT	N	NA	NA_TOT	NOX	P	PH	SS	SULPHATES
SPRINGS ALEXANDA DAM OUTFLOW	1	0.1	22.0	47.0	160.3	0.1	0.0	0.5		31.4	0.5	0.1	8.0	5.0	63.0
	2	0.2	25.0	57.0	82.5	0.2	0.1	0.3		24.0	0.2	0.1	7.5	12.0	72.0
	3	0.1	11.0	60.0	320.0	0.1	0.1	0.1		40.0	0.2	0.2	8.0	5.0	78.5
	4	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
SPRINGS ALEXANDER DAM INFLOW	1	0.1	20.3	46.3	67.7	0.2	0.0	0.3		30.2	0.4	0.1	8.0	6.7	62.3
	2	0.2	19.5	57.5	71.0	0.2	0.1	0.2		20.8	0.3	0.1	7.6	5.0	71.5
	3	0.1	12.0	60.5	290.0	0.1	0.1	0.1		42.1	0.3	0.1	7.8	7.9	77.5
	4	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
SPRINGS ALEXANDER DAM PIER	1	0.9	25.3	46.3	163.0	1.3	0.5	0.3		28.4	0.5	0.1	7.8	31.7	64.3
	2	0.3	26.5	57.0	75.5	0.5	0.1	0.3		35.5	0.3	0.1	7.7	12.0	73.5
	3	0.9	19.5	60.0	440.0	1.3	0.5	0.4		50.9	0.4	0.2	8.1	33.3	77.5
	4	0.2	37.0	48.0	126.0	0.6	0.1	0.5	38.7		0.2	0.1	7.8	7.0	79.3
SPRINGS BOART DAM	1	0.5	25.7	52.0	216.0	1.0	0.1	2.4		22.0	0.8	0.2	7.6	29.7	83.3
	2	0.2	53.0	48.5	492 000.0	0.6	0.2	4.6		21.0	0.2	0.3	7.6	15.5	56.5
	3	1.2	81.0	34.0	610 000.0	2.0	0.2	4.9		10.8	2.6	0.1	7.4	12.0	50.0
	4	6.0	40.0	49.0	203 436.7	8.7	0.4	4.3	29.3		0.2	0.4	7.3	218.0	69.0
SPRINGS PAST COWLESDAM	1	2.6	99.7	46.7	171.3	7.3	0.8	0.6		35.1	0.8	0.1	7.9	257.3	64.7
	2	2.7	123.5	58.5	29.0	4.4	0.9	0.5		39.5	0.2	0.1	7.7	126.5	103.0
	3	0.2	45.7	82.3	473.3	0.3	0.1	0.4		57.3	1.0	0.1	8.1	16.1	167.3
	4	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

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

Quarter 2: 2015/07/01 - 2015/09/30
Quarter 4: 2016/01/01 - 2016/03/31

	Ideal		Acceptable
	Tolerable		Unacceptable