



# EKURHULENI METROPOLITAN MUNICIPALITY

## Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2014/08/04

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MN	N	NA	NOX	P	PH	SS	SULPHATES	
BENONI AMATAPAN OUTLET	1	0.3	29.7	64.0	19.7	0.8	0.1	0.3	63.0	4.5	0.1	7.7	7.3	115.3	
	2	0.1	33.0	56.5	8 350.0	0.9	0.3	1.7	59.5	0.9	0.4	6.9	8.0	86.5	
	3	0.2	33.7	60.7	148.0	1.0	0.1	1.5	34.2	0.9	0.1	7.6	19.7	93.0	
	4	0.2	21.3	79.8	96.3	0.4	0.1	0.9	281.5	1.2	0.1	7.7	12.8	133.8	
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	0.4	27.3	30.7	6 633.3	0.9	0.2	0.2	20.5	0.3	0.1	8.0	17.0	43.7	
	2	0.1	39.0	28.0	3 000.0	0.2	0.1	0.4	14.8	0.2	0.6	7.5	16.0	51.0	
	3	0.1	27.3	34.3	3 400.0	0.6	0.1	0.3	22.3	0.5	0.1	7.8	8.3	41.7	
	4	0.1	26.3	34.5	235 160.0	0.4	0.1	1.1	29.2	0.3	0.1	7.7	11.3	50.3	
BENONI HOMESTEAD DAM	1	0.2	20.0	30.3	14.7	0.4	0.0	4.3	19.2	0.1	0.2	8.1	6.7	38.7	
	2	0.1	15.0	32.5	49.0	0.2	0.0	0.1	27.5	0.1	0.1	8.6	5.0	51.5	
	3	0.1	16.7	24.3	1 367.3	0.2	0.1	0.5	14.3	0.4	0.1	7.9	5.0	28.7	
	4	0.3	20.3	31.5	97.5	0.5	0.1	0.3	20.2	0.2	0.1	7.8	13.5	43.3	
BENONI HOMESTEAD LAKE INLET	1	0.3	12.3	38.3	516.7	0.7	0.0	3.8	24.2	0.3	0.1	8.0	5.0	75.0	
	2	0.3	14.5	36.0	400.0	0.8	0.0	0.4	19.3	0.2	0.1	8.1	8.0	56.5	
	3	0.3	10.7	20.3	1 246.7	0.5	0.0	0.9	9.8	0.3	0.1	7.4	6.7	24.7	
	4	0.1	5.0	37.3	860.0	0.5	0.0	1.0	17.0	0.3	0.1	7.7	5.0	70.3	
BENONI KLEINFONTEIN LAKE INLET	1	0.2	32.3	58.3	6 700.0	0.7	0.0	0.2	62.4	3.8	0.1	8.0	7.7	90.3	
	2	0.1	26.0	52.5	3 100.0	0.7	0.3	1.3	49.3	1.1	0.1	7.8	8.0	74.5	
	3	0.1	17.3	49.7	151 266.7	0.4	0.1	0.7	19.2	0.8	0.1	7.6	5.0	60.7	
	4	0.1	17.5	71.0	286 000.0	0.3	0.1	1.5	75.3	1.5	0.1	7.7	7.8	91.8	
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	0.2	32.7	40.3	227.7	0.7	0.2	0.2	31.8	0.8	0.1	8.8	14.3	59.3	
	2	0.1	64.5	38.0	23.0	0.2	0.2	0.2	34.9	0.1	0.1	9.4	13.0	46.5	
	3	0.8	22.0	26.3	49.0	1.5	0.2	0.6	18.0	0.3	0.1	7.8	29.7	33.7	
	4	0.2	11.0	32.0	135.0	0.6	0.2	0.4	44.8	0.3	0.1	7.7	10.5	51.0	
BENONI LEEUPAN OUTLET DALPARK EXT6	1	0.8	40.7	100.7	287.3	0.9	0.2	0.4	87.5	0.2	0.2	8.4	24.3	172.7	
	2	1.1	122.5	83.5	95.0	1.0	0.1	1.6	82.2	0.3	1.2	8.3	80.0	159.0	
	3	0.3	34.0	66.7	1 020.0	0.4	0.1	1.3	43.3	0.7	0.6	7.5	7.0	59.0	
	4	0.2	19.5	62.0	390.0	0.3	0.1	2.3	101.5	0.7	0.3	7.6	7.3	118.0	
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	0.3	73.0	27.0	46.7	0.5	0.0	1.0	19.9	0.4	0.2	8.3	37.3	24.0	
	2	0.2	56.0	29.5	1 759.0	0.7	0.0	6.2	18.3	0.8	0.1	8.8	22.0	30.0	
	3	0.4	33.3	21.7	3 281.0	0.4	0.0	0.6	10.9	0.2	0.1	7.9	14.0	20.7	
	4	0.4	72.3	25.8	53.8	0.6	0.0	5.2	13.5	0.6	0.1	8.3	50.0	25.8	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	1	0.5	61.7	27.0	1 695.7	0.6	0.1	10.9	24.5	0.1	1.1	8.4	35.3	24.3	
	2	0.2	52.5	29.5	1 822.5	0.6	0.0	0.6	18.3	0.3	0.1	8.5	32.5	29.5	
	3	0.4	36.3	21.7	3 685.3	0.5	0.0	0.6	11.2	0.2	0.1	7.9	19.0	20.3	
	4	0.4	61.5	25.8	109.0	0.6	0.0	3.5	15.3	0.5	0.2	8.3	52.8	25.3	
BENONI WATTVILLE LEEUPAN INLET DUBE ST	1	0.1	5.0	74.3	5 800.0	0.3	0.1	1.6	44.8	5.1	0.2	8.2	6.7	154.3	
	2	0.5	177.5	60.5	139 600.0	0.9	0.3	1.3	51.5	0.6	0.7	7.2	57.5	83.0	
	3	0.1	37.7	91.7	91 933.3	0.6	0.1	4.3	53.1	3.7	0.4	7.5	15.3	164.3	
	4	0.1	15.3	69.5	15 440.0	0.3	0.1	0.4	53.2	3.7	0.1	7.7	6.5	142.0	
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	0.3	65.3	77.3	440.7	0.6	0.1	5.2	80.7	3.4	0.2	8.4	30.7	89.7	
	2	0.2	56.0	76.5	682.0	0.4	0.0	1.9	87.0	0.9	0.6	8.3	20.0	75.0	
	3	0.2	223.7	48.7	703.3	0.6	0.3	0.6	33.8	2.2	0.3	8.1	198.7	62.3	

Quarter 1: 2013/07/01 - 2013/09/30  
 Quarter 3: 2014/01/01 - 2014/03/31





Quarter 2: 2013/10/01 - 2013/12/31  
 Quarter 4: 2014/04/01 - 2014/06/30

	Ideal		Acceptable
	Tolerable		Unacceptable

SAMPLE POINT	QUARTER	ELEMENT												
		AL	COD	CONDUCTIVITY	FCOLI	FE	MN	N	NA	NOX	P	PH	SS	SULPHATES
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	4	0.2	214.3	65.7	4 370.0	0.3	0.0	2.8	65.2	3.6	0.2	8.0	236.7	79.3
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	0.4	42.3	77.3	251.3	0.9	0.1	5.3	91.6	4.0	0.2	8.1	21.7	84.0
	2	0.4	38.5	79.5	605.0	0.8	0.1	4.2	110.6	2.3	0.2	7.8	15.5	77.0
	3	1.0	82.7	54.0	743.3	2.3	0.1	0.9	49.8	2.6	0.2	8.7	88.0	67.7
	4	0.8	39.0	66.0	300.0	2.4	0.1	2.6	64.2	3.7	0.1	7.5	63.7	78.3
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	0.2	43.3	55.0	5 001.7	0.6	0.1	4.5	47.0	3.4	0.1	7.7	16.3	60.0
	2	0.2	57.5	65.0	240.0	0.5	0.1	3.7	63.7	2.8	0.1	8.2	24.0	64.0
	3	0.4	79.7	52.3	38 406.7	0.7	0.0	0.5	55.1	2.0	0.3	9.1	45.7	67.0
	4	0.2	129.0	68.0	8 413.3	0.5	0.1	5.2	76.7	9.7	0.2	7.5	32.0	75.0
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	0.2	20.7	44.7	568.3	0.3	0.2	1.4	34.8	0.2	0.2	8.6	7.3	63.7
	2	0.3	31.0	51.5	160.0	0.4	0.3	0.1	57.1	0.1	2.1	8.3	14.5	69.5
	3	0.7	35.7	51.3	1 395.0	0.5	0.3	0.3	43.7	0.2	0.1	7.9	36.0	81.0
	4	0.2	18.3	55.3	11.3	0.2	0.2	0.3	47.1	0.1	0.1	7.8	5.0	102.3
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	0.1	47.3	63.7	29.0	0.2	0.5	0.7	78.0	0.4	0.2	7.8	5.0	49.3
	2	0.5	42.5	72.5	305.0	0.5	0.4	0.6	128.7	0.7	1.6	7.8	5.0	69.0
	3	0.5	57.7	69.0	97.3	3.3	0.4	2.1	59.0	0.3	0.5	7.4	37.7	81.7
	4	0.1	21.7	75.0	26.0	0.2	0.0	0.9	106.4	1.0	0.1	7.4	5.0	91.7
NIGEL PIET VAN WYK PAN OFF ACCESSROAD FROM BALFOURROAD	1	0.6	56.7	178.0	32.0	0.5	0.1	0.2	193.2	0.1	0.2	8.5	20.3	91.7
	2	0.2	87.5	181.0	272.0	0.9	0.1	0.3	197.8	0.1	0.1	8.6	28.0	86.0
	3	0.1	50.0	192.3	189.7	0.6	0.0	0.2	231.2	0.2	0.1	8.5	11.3	97.3
	4	0.1	34.3	196.7	65.0	0.3	0.2	0.3	229.7	0.7	0.1	8.0	11.0	97.3
NIGEL SPAARWATER PAN OFF R550	1	0.6	34.7	44.0	25.3	0.4	0.0	1.3	33.8	1.3	0.1	8.3	7.3	60.0
	2	0.2	28.5	48.0	59.0	0.2	0.0	0.9	36.2	1.5	0.1	8.1	5.0	70.0
	3	0.4	13.7	39.7	84 424.3	0.3	0.0	0.7	27.8	2.0	0.1	7.9	8.0	55.7
	4	0.4	21.7	42.3	110.0	0.4	0.0	0.7	35.5	0.6	0.1	7.9	5.0	61.7
SPRINGS ALEXANDA DAM OUTFLOW	1	0.1	19.7	57.0	11.0	0.3	0.1	0.1	48.9	1.2	0.1	7.9	5.0	65.7
	2	0.1	20.5	60.0	376.5	0.2	0.0	0.1	73.3	0.6	0.3	8.3	5.0	78.5
	3	0.3	31.0	39.3	344.3	0.6	0.3	0.6	42.3	0.8	0.2	7.7	10.0	55.3
	4	0.1	12.0	50.3	34.8	0.2	0.0	0.3	36.5	0.7	0.1	7.7	5.0	74.5
SPRINGS ALEXANDER DAM INFLOW	1	0.1	13.0	53.7	9.0	0.2	0.0	0.3	47.4	1.2	0.1	7.9	5.0	66.0
	2	0.3	27.0	59.5	116.0	0.4	0.1	0.1	66.3	0.6	0.1	8.1	10.5	80.0
	3	0.6	29.0	39.7	230.0	1.1	0.3	0.6	27.3	0.9	0.2	7.7	9.0	55.7
	4	0.1	9.5	50.3	30.3	0.1	0.0	0.2	28.3	0.7	0.2	7.9	5.0	73.3

Quarter 1: 2013/07/01 - 2013/09/30  
Quarter 3: 2014/01/01 - 2014/03/31

Quarter 2: 2013/10/01 - 2013/12/31  
Quarter 4: 2014/04/01 - 2014/06/30

 Ideal
 Tolerable
 Acceptable
 Unacceptable