



EKURHULENI METROPOLITAN MUNICIPALITY

Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2015/05/06

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MN	N	NA	NOX	P	PH	SS	SULPHATES	
BENONI AMATAPAN OUTLET	1	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	
	2	0.2	33.0	71.7	266.0	0.6	0.1	0.7	64.6	1.5	0.3	7.6	10.3	100.7	
	3	0.2	46.0	62.5	155.5	1.0	0.2	0.3	60.9	0.8	0.1	7.8	31.0	116.5	
	4	0.4	27.3	51.0	18 273.3	0.8	0.2	0.5	31.8	2.4	0.2	8.2	31.3	70.0	
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	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	
	2	0.1	32.0	35.5	851.5	0.7	0.3	1.5	19.0	0.5	0.3	7.8	5.0	40.5	
	3	0.2	17.0	35.0	450.0	0.3	0.0	0.8	22.0	1.6	0.1	8.4	5.0	40.0	
	4	0.4	45.0	30.3	333.3	0.9	0.3	0.4	21.2	0.6	0.3	7.8	42.3	27.3	
BENONI HOMESTEAD DAM	1	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	
	2	0.2	28.0	32.3	4.0	0.5	0.1	0.4	19.3	0.3	0.1	7.8	5.0	44.0	
	3	0.3	59.0	37.5	88.0	0.4	0.1	0.3	21.6	0.4	0.1	7.8	17.5	44.0	
	4	0.1	18.3	25.7	49.7	0.2	0.1	0.3	11.9	0.3	0.1	7.4	5.0	22.7	
BENONI HOMESTEAD LAKE INLET	1	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	
	2	0.1	20.0	33.3	410.5	0.8	0.1	2.1	15.8	0.9	0.1	7.7	5.0	35.7	
	3	0.1	21.5	32.5	191.5	1.1	0.2	0.4	24.6	0.6	0.1	7.6	5.0	34.5	
	4	0.1	7.7	82.3	1 020.0	0.4	0.0	0.7	9.0	0.2	0.1	7.4	5.0	20.3	
BENONI KLEINFONTEIN LAKE INLET	1	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	
	2	0.1	32.7	64.3	21 100.0	0.4	0.1	0.5	50.8	1.6	0.3	7.9	12.0	84.7	
	3	0.4	31.7	54.7	10 283.3	1.4	0.3	1.0	49.2	1.3	0.1	7.5	35.7	91.0	
	4	0.1	38.3	38.0	40 153.3	0.4	0.0	0.3	25.2	0.8	0.3	8.3	82.0	46.3	
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	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	
	2	0.4	78.3	41.3	14.0	0.8	0.4	0.4	20.3	0.7	0.1	8.2	38.3	55.0	
	3	0.1	32.0	43.0	320.0	0.3	0.1	0.4	22.7	0.8	0.1	8.2	11.0	57.0	
	4	0.7	156.0	53.7	1 007 233.3	1.7	0.6	2.1	48.1	0.4	0.3	8.4	87.0	67.3	
BENONI LEEUPAN OUTLET DALPARK EXT6	1	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	
	2	0.5	272.0	92.0	168.3	0.5	0.1	3.7	74.7	2.1	0.6	8.8	109.0	155.7	
	3	1.4	171.5	107.0	2 850.0	1.3	0.1	0.2	114.4	0.1	0.4	9.7	91.5	262.5	
	4	3.1	110.3	40.7	90 069.3	5.8	0.8	1.3	36.3	1.7	0.4	8.0	194.0	57.3	
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	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	
	2	0.4	36.0	26.3	256.3	0.6	0.0	0.8	14.4	0.8	0.1	8.0	26.3	25.7	
	3	0.2	46.0	34.0	504.0	0.4	0.0	2.3	20.1	0.6	0.1	7.8	25.5	25.5	
	4	0.5	36.0	24.3	134.0	0.6	0.0	0.3	12.6	0.2	0.1	8.4	27.7	22.3	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	1	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	
	2	0.4	47.0	26.7	363.3	0.8	0.0	0.7	16.2	1.0	0.1	7.8	28.3	25.7	
	3	0.2	48.5	34.5	415.5	0.4	0.0	2.3	20.6	0.6	0.1	7.7	32.5	25.0	
	4	0.6	36.0	24.3	130.0	0.6	0.0	0.2	12.2	0.2	0.1	8.4	28.0	22.7	
BENONI WATTVILLE LEEUPAN INLET DUBE ST	1	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	
	2	0.1	45.7	55.3	225 666.7	0.2	0.1	4.2	29.6	3.5	1.1	7.9	20.3	77.7	
	3	0.1	18.0	61.5	51 500.0	0.2	0.1	1.3	29.9	3.3	0.1	7.8	5.0	85.0	
	4	2.0	57.3	64.3	89 401.0	2.7	0.3	1.9	41.9	3.3	0.4	8.3	49.3	83.0	
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	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	
	2	0.3	39.7	68.0	34 406.7	0.5	0.1	5.5	67.0	2.2	0.3	8.1	20.3	77.3	
	3	0.2	17.0	74.5	384.0	0.4	0.1	4.0	75.8	4.1	0.2	8.1	7.5	71.0	

Quarter 1: 2014/04/01 - 2014/06/30
 Quarter 3: 2014/10/01 - 2014/12/31





Quarter 2: 2014/07/01 - 2014/09/30
 Quarter 4: 2015/01/01 - 2015/03/31

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	0.4	31.5	51.0	245.0	0.7	0.0	0.8	46.1	2.7	0.3	9.1	16.5	53.0	
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	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	
	2	0.2	24.3	72.3	26.3	0.5	0.1	4.5	75.5	3.9	0.1	8.1	7.0	83.7	
	3	0.2	23.5	77.0	64.0	0.4	0.1	3.8	73.4	4.0	0.3	8.1	5.0	71.5	
	4	0.5	66.0	51.5	205.0	0.9	0.0	0.9	54.5	2.2	0.4	8.7	30.0	55.0	
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	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	
	2	0.2	37.7	65.0	151 900.0	0.4	0.1	6.3	64.4	2.1	0.3	8.0	15.3	74.3	
	3	0.2	17.0	66.0	790.0	0.5	0.1	4.0	67.8	5.2	0.2	8.1	11.0	62.0	
	4	0.3	33.0	52.0	315.0	0.7	0.0	0.7	55.3	2.8	0.3	9.1	20.0	53.0	
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	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	
	2	0.2	23.0	61.3	3.3	0.2	0.2	0.3	58.6	0.3	0.1	8.1	5.0	240.0	
	3	0.2	22.5	68.5	20.0	0.2	0.5	0.6	80.8	0.3	0.1	8.1	8.0	74.0	
	4	0.3	19.0	64.3	257.7	0.2	0.2	0.3	60.0	0.3	0.2	8.3	11.0	98.3	
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	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	
	2	0.4	29.7	78.3	22.7	0.3	0.2	0.2	116.0	0.5	0.4	8.0	9.0	80.3	
	3	0.1	43.5	94.5	140.0	0.3	1.4	0.7	118.8	0.3	0.1	7.7	5.0	190.5	
	4	0.1	27.0	79.3	328.0	0.2	0.3	0.9	107.5	0.3	0.8	7.8	5.0	73.7	
NIGEL PIET VAN WYK PAN OFF ACCESSROAD FROM BALFOURROAD	1	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	
	2	0.2	46.0	204.0	1.7	0.3	0.2	0.4	253.9	0.3	0.1	8.5	15.3	113.3	
	3	0.7	56.5	218.5	508.5	0.7	0.1	0.6	225.9	0.3	0.1	8.6	44.0	90.0	
	4	0.5	52.0	212.7	157.7	0.5	0.0	0.7	226.6	0.3	0.1	8.7	28.7	97.0	
NIGEL SPAARWATER PAN OFF R550	1	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	
	2	0.2	108.0	44.3	168.7	0.2	0.0	1.4	32.6	1.2	0.1	7.7	40.3	57.0	
	3	0.4	29.5	47.5	435.0	0.7	0.3	2.1	43.2	1.5	0.1	7.7	9.0	55.0	
	4	0.9	25.3	38.3	101.7	0.8	0.0	1.1	28.1	0.6	0.1	8.2	32.7	44.0	
SPRINGS ALEXANDA DAM OUTFLOW	1	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	
	2	0.9	38.7	62.0	17.7	1.6	0.1	0.2	69.4	3.2	0.3	8.3	167.0	76.0	
	3	0.6	13.0	65.5	340.0	0.9	0.2	0.3	64.0	1.1	0.1	7.9	30.5	66.0	
	4	0.8	41.5	41.5	295.0	1.4	0.0	0.2	34.8	0.4	0.3	7.8	110.5	62.5	
SPRINGS ALEXANDER DAM INFLOW	1	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	
	2	0.4	19.7	61.7	12.7	0.5	0.1	0.6	67.2	4.2	0.3	8.3	30.7	76.0	
	3	0.1	23.0	65.5	107.0	0.2	0.2	0.2	58.2	1.1	0.1	7.9	5.0	65.5	
	4	0.2	22.0	41.5	221.0	0.2	0.1	0.3	33.0	0.5	0.4	7.7	11.5	62.0	

Quarter 1: 2014/04/01 - 2014/06/30
Quarter 3: 2014/10/01 - 2014/12/31

Quarter 2: 2014/07/01 - 2014/09/30
Quarter 4: 2015/01/01 - 2015/03/31

 Ideal
 Tolerable
 Acceptable
 Unacceptable