



EKURHULENI METROPOLITAN MUNICIPALITY

Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2015/08/06

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MIN	N	NA	NOX	P	PH	SS	SULPHATES	
BENONI AMATAPAN OUTLET	1	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	
	2	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	
	3	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	
	4	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	
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	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	
	2	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	
	3	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	
	4	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	
BENONI HOMESTEAD DAM	1	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	
	2	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	
	3	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	
	4	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	
BENONI HOMESTEAD LAKE INLET	1	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	
	2	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	
	3	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	
	4	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	
BENONI KLEINFONTEIN LAKE INLET	1	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	
	2	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	
	3	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	
	4	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	
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	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	
	2	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	
	3	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	
	4	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	
BENONI KORSMAN BIRD SANCTUARY	1	0.1	40.7	150.3	330.0	0.3	0.2	1.8	117.7	5.3	0.2	7.7	13.3	45.0	
	2	0.2	22.0	15.0	9 000.0	0.3	0.1	1.0	46.2	2.2	0.3	7.6	5.0	37.0	
	3	0.5	33.7	36.7	107 696.7	0.7	0.1	1.2	24.2	1.4	0.2	8.5	23.3	44.0	
	4	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	
BENONI LEEUPAN OUTLET DALPARK EXT6	1	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	
	2	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	
	3	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	
	4	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	
BENONI MIDDLE LAKE: N12 BETWEEN BUNYAN AND TOM JONES ST	1	0.1	14.7	31.3	21 145.3	0.4	0.4	1.3	16.7	0.8	0.1	8.2	6.7	33.7	
	2	0.1	23.5	33.0	375.0	0.6	0.3	0.3	19.0	0.9	0.3	8.1	5.0	37.0	
	3	0.7	67.0	32.3	11 970.0	1.6	0.6	0.3	31.4	0.2	0.2	8.5	86.7	34.3	
	4	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	
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	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	
	2	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	
	3	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	
	4	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	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	1	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	
	2	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	
	3	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	

Quarter 1: 2014/07/01 - 2014/09/30
Quarter 3: 2015/01/01 - 2015/03/31

Quarter 2: 2014/10/01 - 2014/12/31
Quarter 4: 2015/04/01 - 2015/06/30

 Ideal	 Acceptable
 Tolerable	 Unacceptable

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MIN	N	NA	NOX	P	PH	SS	SULPHATES	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	4	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	
BENONI RYNFIELD INLET	1	0.1	32.7	35.0	4.7	0.3	0.1	0.3	19.9	0.3	0.1	7.5	13.0	14.0	
	2														
	3	0.1	14.7	35.3	76.3	0.3	0.3	0.6	16.9	0.1	0.1	7.7	6.7	16.3	
	4	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	
BENONI WATTVILLE LEEUPAN INLET DUBE ST	1	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	
	2	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	
	3	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	
	4	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	
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	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	
	2	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	
	3	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	
	4	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	
BRAKPAN JAN SMUTS DAM NEXT TO WATER CARE WORKS - END OF PAVED ROAD	1	0.2	25.7	72.7	31.7	0.5	0.0	5.0	76.5	3.1	0.2	8.0	5.0	82.0	
	2	0.3	19.0	77.5	5 461.5	0.6	0.1	4.8	80.1	4.5	0.2	8.1	5.0	73.5	
	3	0.4	232.0	52.0	31.5	0.7	0.0	0.2	49.0	1.9	0.3	8.6	132.0	57.0	
	4	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	
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	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	
	2	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	
	3	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	
	4	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	
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	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	
	2	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	
	3	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	
	4	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	
BRAKPAN JAN SMUTS DAM STORMWATER INFLOW INTO QUARRY OF BEDFORD STREET	1	0.4	293.7	58.7	4 656 666.5	0.5	0.0	13.2	54.4	0.7	1.2	7.7	76.3	71.0	
	2	0.4	55.0	50.0	2 630 000.0	0.3	0.0	6.7	38.0	8.5	0.6	8.2	25.5	41.5	
	3	0.4	183.5	54.5	468 500.0	0.4	0.0	4.3	50.9	14.1	0.4	8.1	23.0	67.0	
	4	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	
BRAKPAN JAN SMUTS WATER CARE WORKS FINAL OUT FLOW INTO JAN SMUTS DAM	1	0.1	34.7	70.0	1.7	3.9	0.1	3.8	65.8	16.8	0.2	7.4	25.3	67.3	
	2	0.1	42.5	64.5	4 900.0	3.4	0.1	3.7	49.5	17.7	0.1	7.6	17.0	55.5	
	3	0.2	55.5	51.5	1 102.0	3.1	0.1	3.2	40.0	8.1	0.3	7.1	26.5	48.5	
	4	0.1	54.7	51.0	0.3	1.8	0.0	14.1	50.7	10.4	0.7	7.7	22.7	63.7	
BRAKPAN WATER FROM JAN SMUTS DAM ENTERING BLESBOKSPRUIT OF HOSPITAL ROAD	1	0.3	27.0	66.3	385.7	0.7	0.1	3.4	67.2	3.5	0.1	8.0	9.3	76.0	
	2	0.2	26.5	45.0	4 085.0	0.4	0.0	3.5	75.6	4.5	0.3	8.1	11.5	70.0	
	3	0.5	88.0	51.5	540.0	1.0	0.0	0.6	49.0	2.2	0.3	8.6	74.0	53.5	
	4	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	
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	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	
	2	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	
	3	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	
	4	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	
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	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	
	2	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	
	3	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	
	4	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	
NIGEL PIET VAN WYK PAN OFF ACCESSROAD FROM BALFOURROAD	1	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	
	2	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	
	3	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	
	4	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	

Quarter 1: 2014/07/01 - 2014/09/30
Quarter 3: 2015/01/01 - 2015/03/31





Quarter 2: 2014/10/01 - 2014/12/31
Quarter 4: 2015/04/01 - 2015/06/30

 Ideal
 Tolerable
 Acceptable
 Unacceptable

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MIN	N	NA	NOX	P	PH	SS	SULPHATES	
NIGEL SPAARWATER PAN OFF R550	1	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	
	2	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	
	3	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	
	4	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	
SPRINGS ALEXANDA DAM OUTFLOW	1	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	
	2	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	
	3	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	
	4	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	
SPRINGS ALEXANDER DAM INFLOW	1	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	
	2	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	
	3	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	
	4	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	
SPRINGS ALEXANDER DAM PIER	1	0.4	26.3	62.0	17.0	1.6	0.1	0.5	72.5	3.2	0.2	8.3	29.7	75.7	
	2	0.1	15.0	58.5	85 054.5	0.2	0.1	0.6	34.7	0.3	0.1	8.1	5.0	62.0	
	3	5.6	16.5	41.5	325.0	0.5	0.1	0.2	37.4	0.4	0.3	7.8	7.5	62.5	
	4	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	
SPRINGS BOART DAM	1	1.6	30.0	48.3	119.0	2.6	0.1	3.4	26.0	0.8	0.3	7.7	71.3	82.3	
	2	2.0	69.0	54.0	490 000.0	3.6	0.2	6.2	27.2	0.6	0.2	8.1	151.0	56.0	
	3	0.3	38.3	56.0	234 493.3	0.8	0.1	3.1	24.9	0.8	0.2	6.9	17.3	59.7	
	4	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	
SPRINGS PAST COWLESDAM	1	3.2	161.0	58.7	8.0	4.8	0.3	0.4	52.8	2.0	0.2	8.1	272.0	77.3	
	2	23.6	151.0	25.5	405 080.0	31.0	0.8	0.8	10.4	2.0	0.1	7.9	925.0	30.5	
	3	0.5	14.0	41.5	219.5	0.8	0.2	0.3	29.4	0.4	0.4	7.8	30.5	62.0	
	4	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	

Quarter 1: 2014/07/01 - 2014/09/30
Quarter 3: 2015/01/01 - 2015/03/31

Quarter 2: 2014/10/01 - 2014/12/31
Quarter 4: 2015/04/01 - 2015/06/30

 Ideal
 Tolerable
 Acceptable
 Unacceptable