



EKURHULENI METROPOLITAN MUNICIPALITY

Quarterly Water Quality Status of the BLESBOKSPRUIT Catchment

As on 2014/02/06

SAMPLE POINT	QUARTER	ELEMENT													
		AL	COD	CONDUCTIVITY	FCOLI	FE	MN	N	NA	NOX	P	PH	SS	SULPHATES	
BENONI AMATAPAN OUTLET	1	0.2	26.7	55.7	533.3	0.8	0.2	0.5	42.4	4.5	0.1	7.4	16.0	70.3	
	2	0.2	30.0	56.7	39.3	0.7	0.1	1.2	49.3	3.8	0.1	7.4	14.0	84.3	
	3	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	
	4	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	
BENONI CIVIC LAKE OUTLET: TOWN VOORTREKKER ST	1	0.1	31.3	25.7	1 581.0	0.3	0.1	0.9	16.7	0.1	0.1	7.6	11.7	23.0	
	2	0.1	31.0	25.3	233.3	0.3	0.1	0.3	35.6	0.1	0.1	7.8	15.0	190.0	
	3	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	
	4	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	
BENONI HOMESTEAD DAM	1	0.2	49.0	22.7	206.7	0.4	0.1	0.4	12.3	0.2	0.1	8.0	20.0	28.0	
	2	0.3	45.7	23.3	35.0	0.5	0.0	0.3	15.9	0.2	0.1	7.2	32.0	31.0	
	3	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	
	4	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	
BENONI HOMESTEAD LAKE INLET	1	1.4	7.3	20.0	1 726.7	2.6	0.1	0.5	10.7	0.3	0.1	7.5	33.7	26.3	
	2	0.7	14.3	19.7	413.3	1.1	0.0	0.3	10.9	0.4	0.1	7.1	13.0	27.0	
	3	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	
	4	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	
BENONI KLEINFONTEIN LAKE INLET	1	0.2	13.0	53.7	9 433.3	0.6	0.1	0.2	56.3	3.8	0.1	7.2	7.0	81.7	
	2	0.1	22.3	54.3	14 506.7	0.5	0.1	0.1	42.4	3.7	0.1	7.4	9.3	77.3	
	3	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	
	4	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	
BENONI KLEINFONTEIN OUTLET: TOWN - PIONEER ST	1	0.2	24.3	29.0	9.3	0.3	0.0	0.2	20.6	0.2	0.1	9.0	10.3	63.7	
	2	0.1	34.3	30.3	76.0	0.3	0.1	0.2	22.8	0.4	0.1	8.9	18.0	39.0	
	3	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	
	4	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	
BENONI LEEUPAN OUTLET DALPARK EXT6	1	0.3	46.7	87.7	4 320.0	0.3	0.0	0.3	82.2	2.2	0.3	8.2	27.7	147.0	
	2	0.5	50.0	83.7	164.3	0.6	0.2	0.1	55.6	0.1	0.1	8.2	27.7	361.0	
	3	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	
	4	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	
BENONI RYNFIELD DAM OUTLET NEXT TO MAIN ENTRANCE	1	0.2	101.0	25.5	50.5	2.3	0.0	0.5	17.5	0.2	0.3	7.9	60.5	16.0	
	2	0.3	72.0	23.3	251.0	0.6	0.0	0.2	15.3	0.1	0.1	8.2	37.3	21.3	
	3	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	
	4	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	
BENONI RYNFIELD DAM: SAREL CILLIERS ST	1	0.3	82.7	24.3	91.7	0.5	0.0	0.6	19.8	0.1	0.1	8.0	63.0	14.7	
	2	0.3	67.7	23.3	134.7	0.6	0.0	0.2	16.5	0.3	0.1	8.5	19.0	20.3	
	3	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	
	4	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	
BENONI WATTVILLE LEEUPAN INLET DUBE ST	1	0.2	20.0	59.7	11 500.0	0.4	0.0	0.5	28.1	5.7	0.1	7.6	47.3	95.7	
	2	0.8	19.3	52.0	16 860.0	1.2	0.1	0.9	33.2	2.5	0.1	7.5	28.3	90.7	
	3	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	
	4	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	
BRAKPAN JAN SMUTS DAM NEXT TO MINE DUMP AT AERATION PUMP	1	0.4	170.7	59.7	25.3	0.9	0.1	0.3	56.4	2.6	0.4	7.8	349.7	53.0	
	2	0.3	38.7	66.0	355.3	0.4	0.0	1.7	63.1	4.5	0.3	8.4	13.7	78.7	
	3	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	

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





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

 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	0.2	56.0	76.5	682.0	0.4	0.0	1.9	87.0	0.9	0.6	8.3	20.0	75.0
BRAKPAN JAN SMUTS DAM PUMP STATION OF TALBOT STREET	1	0.3	50.7	61.0	132.3	1.0	0.0	1.6	65.4	3.2	0.4	8.0	25.0	61.3
	2	0.4	79.0	67.0	107.3	1.0	0.1	1.7	65.8	4.7	0.2	7.7	41.3	82.0
	3	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
	4	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
BRAKPAN JAN SMUTS DAM QUARRY OUTFLOW INTO DAM	1	0.3	169.3	52.3	75.3	1.1	0.1	1.0	52.1	2.4	0.3	8.0	246.3	57.3
	2	0.2	83.0	59.0	47 703.3	0.5	0.1	2.7	58.1	2.8	0.3	7.9	20.3	65.0
	3	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
	4	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
NIGEL DAM AT BOATLAUNCH NEAR DAMWALL VORSTERSKROON	1	0.3	16.3	42.3	760.0	0.3	0.3	0.3	38.4	0.2	0.2	8.0	11.7	64.7
	2	0.2	16.0	40.3	13.7	0.3	0.2	0.2	30.9	0.3	0.1	7.5	5.0	50.7
	3	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
	4	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
NIGEL DAM INFLOW FRED WEGENER ROAD VORSTERSKROON	1	0.1	8.3	37.7	20.0	0.3	0.2	0.7	31.9	0.7	0.4	7.6	5.0	72.3
	2	0.1	23.7	41.7	1 905.3	0.2	0.0	0.3	32.7	0.5	0.1	7.1	13.0	47.3
	3	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
	4	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
NIGEL PIET VAN WYK PAN OFF ACCESSROAD FROM BALFOURROAD	1	0.2	124.3	171.8	556.3	1.1	0.4	0.3	177.8	0.2	0.2	8.0	88.8	432.8
	2	0.2	75.0	195.0	16.0	0.3	0.0	0.1	228.6	0.1	0.2	8.8	24.3	110.0
	3	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
	4	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
NIGEL SPAARWATER PAN OFF R550	1	0.3	29.0	38.0	178.0	0.7	0.0	1.4	27.0	0.4	0.3	8.2	7.0	54.3
	2	0.5	17.7	40.3	71.0	0.5	1.8	1.1	27.1	0.8	0.1	7.6	6.7	50.0
	3	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
	4	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
SPRINGS ALEXANDA DAM OUTFLOW	1	0.3	26.0	41.0	315.7	0.3	0.1	0.4	29.2	0.2	0.2	7.5	14.0	52.0
	2	0.2	21.7	41.7	1 048.3	0.3	0.1	0.3	27.4	0.4	69.1	7.7	8.0	66.7
	3	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
	4	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
SPRINGS ALEXANDER DAM INFLOW	1	0.3	23.3	41.3	48.0	0.1	0.1	0.2	30.8	0.3	0.1	7.4	8.0	51.7
	2	3.1	43.3	41.7	1 125.0	5.0	0.9	0.2	28.5	1.4	1.0	7.7	148.7	65.0
	3	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
	4	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

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

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

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