

Department: Water Affairs & Forestry  
 Quarterly Water Quality Status of the Klip River Catchment

April - June 2011

Site Number	Sample Point Description	Aluminium	Ammonia	Chemical Oxygen Demand	Chloride	Conductivity	Daphnia Toxicity	Dissolved Oxygen	Faecal coliforms	Fluoride	Iron	Magnesium	Manganese	Nitrate	pH	Phosphate	Sodium	Sulphate	Suspended Solids	
1	Russel Stream @ New Canada RD	9.20	26.10	####	50.00	####					48.00		8.73	3.80	5.20	0.10	####	583.30	4043.30	
		2.38	8.00	28.00	27.50	####			5.00		33.00		6.89	0.60	6.50	0.10		378.00	82.00	
		10.53	8.50	42.00	40.30	####			50.00		60.90		5.57	1.23	4.70	0.10		564.00	41.00	
		7.30	10.20	59.30	58.70	####			0.00		93.10		15.50	0.90	5.30	0.10		77.20	36.70	
2	Klip River @ R41	0.06	0.10	14.30	20.00	36.00					0.09		0.08	0.93	7.50	0.10	61.40	74.60	17.00	
		0.73	0.10	39.00	11.50	37.50			420.00		0.13		0.12	0.20	7.50	0.10	22.80	64.00	10.00	
		0.05	0.13	21.60	16.60	34.60			220.00		0.09		0.12	0.53	7.46	0.30	19.70	72.67	18.60	
		0.3	0.10	13.00	21.30	38.70			57.00		0.30		0.30	1.00	7.10	0.10	19.50	98.70	13.70	
3	Klip River on N12 S/S-EP	0.06	0.30	16.30	25.30	63.00					0.08		0.13	1.13	7.30	0.20		90.00		
				11.00	37.50	33.00	53.00		4800.00					0.10	7.20	0.85	42.80	40.00	10.00	
		0.05	0.10	15.00	26.00	54.00			5000.00		0.03		0.05	1.00	7.40	0.10	26.20	116.00	14.00	
				9.80	35.00	58.30	57.70		96300.00					6.90	7.10	0.30	60.10	52.70	25.30	
4	Harringtonspruit on N12 s/s EP		0.30	32.00	56.00	55.30			22200.00					4.00	7.40	0.50		46.00	15.00	
			1.80	59.00	56.00	67.00			8530.00		1.89		3.80	4.75		0.40	78.10	57.60	10.00	
		0.10	0.50	15.70	33.00	61.70			2610.00		0.50		0.20	2.40	7.10	0.10	31.80	111.30	14.30	
		0.32	0.50	24.30	41.00	46.30			2819.00		0.10		0.50	2.60	7.80	0.20	48.00	94.30	18.30	
5	Klip River on Golden Highway		0.10	16.50	34.00	54.00								0.10	7.70	0.20	50.80	98.00	10.00	
			0.20	12.00	28.00	53.30			71000.00						2.77	7.23	0.20	24.30	110.30	10.00
			1.20	21.00	39.70	57.30			59.50						27.80	7.10	0.10	42.60	115.70	28.30
6	Klip River on R82, Old Vereeniging road	0.06	1.10	41.00	50.00	63.00			2350.00		0.13		0.20	2.90	7.50	0.30	####	84.30	45.00	
		0.04	2.27	17.00	37.00	55.33			245000.00		0.17		0.40	1.37	7.43	0.57	42.75	97.00	19.00	
7	Klip River on R59		3.00	36.00	52.00	63.00			3993.33		0.33			1.73	7.76	0.56	58.06	85.67	64.67	
		0.10	0.45	25.00	45.50	58.00			620.00		0.17	12.78		3.05	7.30	0.35	####	93.00	24.50	
		0.32	1.20	31.67	36.67	53.00			7900.00	0.70	0.40	15.33		2.47	7.27	0.43	43.73	99.67	38.67	
		0.18	1.00	17.00	51.00	57.00			11406.70	0.20	0.14	16.20		4.70	7.30	0.20	44.70	103.00	27.00	
8	Elsburgspruit on Brug Street				54.3	106.7			25333.0		0.80				7.20			322.0		
			18.25	53.50	88.5	131.5			456900.0		0.28	23.70		0.50	7.05	0.40	68.25	367.0	21.00	
			7.60	63.67	52.7	89.0			1308000.0	0.23	2.10	24.73		1.73	7.00	0.23	51.13	273.3	280.00	
			11.70	25.00	61.5	102.5			113333.3	0.20	0.38	38.80		0.60	7.00	2.10	51.20	294.0	36.00	
9	Elsburgspruiton R554 u/s of confluence with Natalspruit				87.0	101.0			1350.0		0.19				7.33			181.7		
			0.41	20.00	59.5	91.0			550.0		0.08			1.30	7.25	0.30	66.80	241.5	10.00	
		0.08	1.00	13.67	53.7	71.3			1215.0	0.33	0.27	53.50		1.30	7.00	0.17	61.63	151.7	12.00	
			0.30	15.00	92.5	91.5			604.3	0.30	0.04	30.00		1.40	7.20	0.10	####	201.5	10.00	
10	Bothasfontein 408 South of Waterval STW on Rietspruit Klipriver	0.13	1.20	26.00		90.00						21.30		3.20	7.20	0.30		215.00	10.00	
		0.12	2.00	20.00		72.50				0.30		26.10		2.60	7.45	0.60		113.50	31.00	
			1.70	12.50		34.50			476.70	0.30		31.60		3.30	7.20	0.30		179.00	27.00	
			2.00	39.50	62.00	71.33			3616.67		0.14			3.23	7.63	0.80	43.67	92.33	59.66	
11	Klip River on KareeHoof		0.31	26.00	63.00	68.00			490.00		0.34	16.50		6.60	7.30	0.40	66.85	118.50	21.50	
		0.37	1.87	27.67	42.00	56.00			144500.00	0.23	0.36	18.47		2.37	7.33	0.60	28.07	93.33	35.67	
			1.10	29.50	62.50	66.00			7633.30	0.20	0.10	19.70		3.60	7.40	0.30	54.30	121.00	46.00	
			1.10	39.20	51.30	70.30			505.00		0.08			2.20	7.46	0.77	42.60	95.30	38.67	
12	Klip River @ henly weir		0.40	40.00	56.30	68.67			940.00		0.14	16.70		3.40	7.75	0.90	67.70	82.00	35.67	
			1.80	32.67	50.67	65.00			5450.00		0.06	19.47		2.80	7.50	0.37	50.23	105.00	38.56	
			1.00	37.50	57.50	66.50			590.00		0.30	22.40		3.90	6.90	0.40	54.30	121.00	47.00	
			0.57	31.67	59.33	73.00			5150.00		0.45	22.12	0.16	0.57	7.37	0.40	48.10	102.70	35.00	
13	Houtkopspruit d/s Mittal Steel	0.05	1.17	23.00	49.33	63.33			86000.00		0.17	19.20	0.56	1.35	7.46	0.83	37.40	77.00	63.50	
		0.05	0.45	17.50	43.50	69.00			1900.00		0.22	27.85	0.50	4.25	7.60	0.45	39.65	95.00	11.00	
			0.20	25.00	41.50	59.00			600.00		0.20	19.60	0.03	1.90	7.10	0.20	33.90	115.50	10.00	
			0.40	39.67	59	70.67			255		0.10	17.97	0.09	0.4	7.37	0.67	67.57	96	19	
14	Klip River @ Vosloepark		0.20	26.3	53	68.33			633		0.10	17.3	0.11	3.65	7.45	0.50	65.63	68	16	
			0.80	31.5	50.5	64.5			4.200		0.06	20.1	0.03	2.7	7.6	0.40	50.15	91	50.5	
			2.00	22	57.5	66.5			65.000		0.30	23.2	0.30	3.7	7.1	0.60	53.8	119.5	41	
			0.08	25.33	49.33	57.67					0.14	16.7	0.04	2.01	7.37	0.27	47.77	84	22	
15	Isor Vaal @ Dickson Park		0.27	17.7	53.7	69.3			210		0.11	19.67	0.11	2.4	7.55	1.16	65.2	113.7	16	
			0.50	24	27.5	46			940		0.50	15.35	0.03	1	7.95	0.70	36.6	74	34	
			0.20	19	204	90			54		0.40	14.8	0.05	6.6	7	0.10	41.7	56	10	

Key	
2.00	01 July 2010 to September 2010
0.31	01 Oct 2010 to December 2010
1.87	01 January 2011 to March 2011
1.10	01 April to June 2011

Water Quality Guidelines	
Blue	Ideal
Green	Acceptable
Yellow	Tolerable
Red	Unacceptable

11	Klip River on KareeHoof	2.00	0.31	1.87	1.10
----	-------------------------	------	------	------	------