

Rand Water
 Quarterly Water Quality Status of the Blesbokspruit Catchment

01 Apr 2010 - 31 Mar 2011



Sample Points	Sample Point Description	Aluminium	Ammonia	Chemical Oxygen Demand	Chloride	Conductivity	Daphnia Toxicity	Dissolved Oxygen	E.coli	Fluoride	Iron	Magnesium	Manganese	Nitrate	pH	Phosphate	Sodium	Sulphate	Suspended Solids
B1	Outflow from New Kleinfontein Dam S26.183 E28.334	0.01	0.90		31	42		3.5		0.40	0.08	16	0.16	0.31	7.6	0.24	32	44	
		<0.01	1.80		52	53		7.0		0.28	0.02	13	0.23	0.90	7.5	0.04	38	65	
		<0.01	0.22		42	48		4.9		0.34	0.03	11	0.08	0.31	6.8	0.08	29	68	
		0.03	0.12		15	28		9.7		0.50	0.01	11	0.11	0.14	8.2	0.06	24	47	
B2	Outflow from Van Ryn Dam S26.165 E28.371	<0.01	1.31	16	63	45	100	3.9	165	0.22	0.06	12	0.14	1.68	7.7	0.26	46	88	
		<0.01	4.40	25	84	64	100	3.2	558	0.21	0.05	12	0.34	1.60	7.4	0.08	54	46	
		0.01	7.00	32	74	57	100	2.8	470	0.31	0.08	8.5	0.18	0.13	7.1	0.53	41	21	
		<0.01	3.80	26	56	52	100	5.6	540	0.28	0.09	10	0.81	0.19	7.4	0.21	43	40	
B3	Stream from Brakpan Lake S26.209 E28.385	<0.01	1.63		61	61		3.4		0.17	0.02	18	0.17	1.64	7.8	0.24	58	88	
		<0.01	2.50		57	59		5.5		0.16	0.13	13	0.51	3.20	7.2	0.18	44	81	
		<0.01	0.89		94	74		4.8		0.14	0.01	13	0.12	4.20	6.9	0.16	64	120	
		<0.01	0.31		60	58		5.3		0.20	0.01	13	0.36	1.90	7.4	0.12	46	98	
B4	Causeway @ Alexander Dam S26.211 E28.415	0.02	0.92		50	51		9.3		0.26	0.01	16	0.32	0.70	7.8	<0.05	38	148	
		0.04	0.12		67	64		9.8		0.31	0.01	15	0.23	0.75	7.7	<0.04	54	98	
		<0.01	0.12		66	60		7.8		0.42	0.01	12	0.04	0.10	7.1	0.06	46	93	
		<0.01	0.12		32	44		5.1		0.35	0.01	12	0.45	0.31	7.0	<0.04	27	96	
B9	Outflow from Cowles Dam S26.209 E28.467	0.03	0.19	30	74	68	100	5.2	15	0.24	0.02	17	0.08	0.28	8.0	0.06	66	107	
		0.05	0.60	46	130	100	100	5.6	46	0.21	0.06	16	0.38	0.26	7.8	0.10	115	105	
		0.05	1.30	56	160	80	100	2.7	100	0.25	0.06	17	0.21	0.32	7.4	0.21	175	130	
		0.01	2.90	32	57	66	100	5.3	49,720	0.28	0.04	14	0.43	0.44	7.5	0.57	56	120	
B13	Stream from Daveyton below Welgedacht WWTW S26.199 E28.480	<0.01	4.50	57	60	63	99	3.5	14,374	0.26	0.04	21	0.27	1.27	7.6	1.21	62	58	
		<0.01	4.50	270	69	72	100	1.8	23,443	0.23	0.10	18	0.53	0.65	7.3	1.80	82	130	
		<0.01	7.70	195	58	74	98	0.7	11,430	0.23	0.07	10	0.30	0.17	7.1	2.20	65	92	
		0.02	4.40	38	59	64	99	6.3	414,520	0.30	0.05	14	0.31	0.96	7.5	0.84	61	78	
B5	Blesbokspruit @ Welgedacht S26.215 E28.480	0.01	2.09		61	66		3.8		0.60	0.03	19	0.27	0.48	7.8	0.70	63	153	
		<0.01	1.70		100	87		2.4		0.24	0.04	16	0.33	0.59	7.5	1.10	94	82	
		<0.01	4.90		100	90		2.7		0.26	0.03	13	0.26	0.17	7.2	1.10	99	100	
		<0.01	1.60		56	63		1.7		0.32	0.02	14	0.21	0.47	7.2	0.29	53	125	
B16	Train Bridge @ Grootlei Mine S26.256 E28.498	0.01	0.40		82	112		3.0		0.32	0.01	38	0.23	0.62	8.0	0.53	82	301	
		<0.01	0.83		105	140		4.1		0.36	0.01	41	0.20	0.55	8.0	1.20	115	350	
		<0.01	1.90		115	155		3.6		0.47	<0.01	43	1.50	0.38	7.7	2.40	140	420	
		<0.01	2.50		55	68		2.0		0.32	0.03	17	1.40	<0.10	7.3	0.87	53	135	
B6	Klein Blesbokspruit @ Selection Park S26.283 E28.444	13.02	0.15		35	108		7.3		2.15	0.39	46	15.00	0.78	4.8	<0.05	33	327	
		9.40	0.12		37	135		8.4		1.10	0.09	58	9.80	0.12	4.4	<0.04	50	600	
		5.20	1.20		26	94		4.7		1.30	0.28	32	9.50	0.53	5.7	<0.04	31	430	
		0.14	0.12		47	52		5.1		0.36	0.01	17	0.58	0.65	7.4	<0.04	37	115	
B15	Blesbokspruit on N17 Toll Road @ Springs S26.271 E28.504	0.01	0.23		79	108		2.7		0.32	0.01	34	0.21	0.49	8.0	0.41	77	272	
		<0.01	0.30		105	140		3.4		0.36	0.01	41	0.45	0.51	8.0	1.10	110	350	
		<0.01	1.40		105	140		2.8		0.49	0.01	38	1.80	0.16	7.6	2.00	130	360	
		<0.01	2.30		54	68		2.7		0.34	0.03	17	1.30	<0.10	7.3	1.10	51	125	
B17	Blesbokspruit @ Marievale Bird Sanctuary S26.359 E28.508	<0.01	0.12		81	108		6.2		0.32	0.01	39	0.18	<0.10	8.0	0.29	77	298	
		<0.01	0.12		110	140		4.5		0.37	0.08	43	1.20	0.81	8.2	0.45	130	375	
		<0.01	0.12		115	120		4.6		0.45	<0.01	43	0.37	<0.10	8.1	0.96	140	390	
		<0.01	0.12		60	75		4.6		0.38	<0.01	22	1.20	<0.10	7.7	1.10	60	150	
B11	Blesbokspruit on R42 bridge @ Nigel S26.391 E28.497	<0.01	0.12		76	102		6.6		0.33	0.01	35	0.30	0.16	8.2	0.36	77	252	
		<0.01	1.60		97	135		6.0		0.31	0.01	37	0.39	<0.10	8.3	1.30	105	300	
		<0.01	0.12		110	155		6.5		0.58	0.02	44	0.60	<0.10	8.0	0.84	140	395	
		0.03	0.12		52	71		4.9		0.41	0.01	20	0.52	<0.10	7.6	0.74	50	145	
B7	Stormwater drain from Nigel Dam S26.415 E28.466	0.02	0.12		34	58		6.7		0.38	0.02	18	1.15	<0.10	7.6	<0.05	35	173	
		<0.01	0.12		41	71		6.8		0.37	0.01	21	1.90	0.10	7.3	<0.04	45	200	
		0.01	0.20		45	58		5.8		0.53	<0.01	21	1.20	0.20	6.8	<0.04	50	250	
		0.04	0.12		24	55		5.2		0.40	0.01	16	2.40	0.34	6.7	<0.04	27	215	
B8	Blesbokspruit @ Nigel S26.439 E28.456	<0.01	0.12		74	97		7.8	1,365	0.35	0.01	32	0.22	<0.10	8.3	0.30	71	248	
		<0.01	0.15		100	130		8.2	14,023	0.37	<0.01	40	1.30	<0.10	8.2	0.27	100	345	
		<0.01	0.15		105	100		6.0	3,020	0.48	0.01	40	0.27	0.10	7.5	0.60	125	380	
		0.02	0.12		45	62		6.3	20,030	0.39	0.02	18	0.24	0.14	7.6	0.52	43	130	
B14	Bridge @ Jameson Park S26.479 E28.426	<0.01	1.91		70	96		8.4		0.30	0.03	32	0.24	0.34	8.2	0.57	74	207	
		<0.01	0.68		99	130		5.8		0.36	0.01	38	1.60	0.48	8.1	0.32	100	325	
		<0.01	1.50		98	125		3.4		0.49	0.02	37	0.30	0.13	7.4	0.75	115	340	
		0.01	0.26		44	64		6.4		0.37	0.02	18	0.40	0.44	7.8	0.46	46	125	

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01 Apr 2010 - 31 Mar 2011



Sample Points	Sample Point Description	Aluminium	Ammonia	Chemical Oxygen Demand	Chloride	Conductivity	Daphnia Toxicity	Dissolved Oxygen	E.coli	Fluoride	Iron	Magnesium	Manganese	Nitrate	pH	Phosphate	Sodium	Sulphate	Suspended Solids
B12	Stream from Kaydale Station S26.477 E28.404	0.01	1.11		38	45		7.6		0.23	0.02	24	0.87	1.15	8.1	0.49	51	82	
		0.02	2.40		32	51		6.0		0.18	0.03	13	0.51	2.90	7.6	1.00	42	39	
		0.04	2.10		25	46		4.8		0.26	0.04	9.8	0.23	3.30	7.0	0.86	27	48	
		0.01	0.18		26	42		5.2		0.29	0.01	12	0.80	2.20	7.5	0.34	29	40	
B10	Blesbokspruit Weir @ Heidelberg S26.511 E28.351	0.01	0.29	17	68	89	100	7.5	7119	0.30	0.02	32	0.07	0.84	8.2	0.35	66	208	14
		<0.01	0.83	23	89	115	100	6.9	6049	0.35	0.02	29	0.18	1.10	7.9	0.34	90	280	15
		0.08	1.10	28	87	130	100	5.0	34760	0.45	0.05	34	0.28	0.83	7.5	0.59	105	320	24
		0.01	0.12	21	44	63	100	5.8	9310	0.42	0.02	17	0.13	0.69	7.6	0.42	42	120	24
S1	Suikerbosrant River @ Heidelberg S26.630 E28.297	0.11	0.12		16	29		6.6	257	0.27	0.28	15	0.03	0.41	7.9	0.05	19	15	
		0.01	0.12		20	36		8.1	46	0.18	0.02	15	0.04	0.29	7.9	<0.04	22	18	
		0.02	0.12		35	45		4.8	205	0.31	0.02	19	0.03	0.26	7.8	0.09	36	66	
		0.63	0.12		<10	23		5.5	490	0.23	0.78	9.4	0.04	0.24	7.2	0.06	10	12	
S2	Suikerbosrant River Weir @ Three Rivers S26.671 E28.030	0.01	0.13	21	59	77	100	8.6	1926	0.25	0.03	27	0.05	0.92	8.2	0.23	55	170	38
		<0.01	0.12	19	80	98	97	6.5	98	0.31	0.02	30	0.06	1.10	8.2	0.15	77	235	<10
		0.02	0.15	25	79	110	100	5.7	680	0.44	0.02	29	0.05	1.20	7.8	0.32	79	260	16
		0.09	0.12	25	31	47	100	6.4	1900	0.30	0.13	14	0.04	0.63	7.5	0.18	28	78	41

Key

B12	Stream from Kaydale Station	0.01	1.11	- 1 Apr to 30 Jun 2010
		0.02	2.40	- 1 Jul to 30 Sep 2010
		0.04	2.10	- 1 Oct to 31 Dec 2010
		0.01	0.18	- 1 Jan to 31 Mar 2011

Water Quality Guidelines

	- Ideal
	- Acceptable
	- Tolerable
	- Unacceptable