

Department Water & Sanitation
 Quarterly Water Quality Status of the Blesbokspruit Catchment

01 Jul 2013 - 30 Jun 2014



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	0.14		54	40		6.7		0.30	0.07	13	0.16	0.93	8.4	0.34	49	90	
		0.01	0.19		39	42		5.5		0.35	0.04	13	0.12	0.17	8.3	0.35	46	52	
		0.03	0.24		14	27		6.1		0.32	0.05	9	0.05	0.20	7.4	0.12	17	31	
		0.01	0.14		23	31		9.0		0.32	0.06	9	0.13	0.73	7.7	0.26	16	49	
B2	Outflow from Van Ryn Dam S26.166 E28.371	0.01	3.50		70	55		9.5		0.23	0.11	9	0.04	2.40	7.9	0.17	49	48	
		0.01	6.30		53	56		9.3		0.30	0.05	9	0.05	0.53	7.9	0.79	40	37	
		0.02	4.60		60	48		7.5		0.30	0.08	11	0.12	0.56	7.4	0.77	42	46	
		0.02	3.60		56	62		11.0		0.29	0.10	12	0.15	0.97	8.1	0.62	46	50	
B3	Stream from Brakpan Lake S26.209 E28.385	0.01	3.20		85	75		3.8		0.12	0.09	13	0.17	3.90	7.5	0.14	69	87	
		<0.01	3.10		85	76		3.5		0.15	0.04	12	0.18	1.90	7.2	0.24	67	77	
		0.01	0.21		56	52		2.2		0.15	0.04	9.8	0.04	1.50	7.4	0.38	52	65	
		0.01	2.50		64	66		4.5		0.23	0.04	13	0.13	2.70	7.4	0.44	61	78	
B4	Causeway @ Alexander Dam S26.211 E28.415	0.02	0.20		61	55		7.7		0.27	0.07	11	0.04	1.40	8.1	0.09	47	60	
		0.01	0.32		54	58		6.9		0.35	0.03	11	0.05	0.47	8.1	0.42	48	53	
		0.01	0.22		32	42		4.6		0.34	0.05	11	0.25	0.51	7.5	0.43	32	51	
		0.03	0.44		53	56		12.0		0.27	0.02	14	0.04	2.00	8.5	0.38	56	81	
B9	Outflow from Cowles Dam S26.209 E28.467	0.02	0.47		70	80		4.0	32	0.23	0.07	16	0.10	1.70	7.6	0.07	61	145	
		0.06	0.76		77	91		4.9	105	0.35	0.05	19	0.23	1.60	7.6	0.21	70	155	
		0.06	0.21		38	52		5.1	920	0.34	0.04	14	0.06	1.10	7.5	0.12	38	90	
		0.04	0.35		41	67		4.0	420	0.29	0.08	14	0.15	0.21	7.6	0.14	51	132	
B13	Stream from Daveyton below Welgedacht WWTW S26.199 E28.480	<0.01	9.40		70	83		2.5	12,080	0.19	0.11	12	0.26	0.70	7.4	1.30	78	92	
		<0.01	2.50		53	68		2.4	7,760	0.28	0.03	13	0.31	1.60	7.2	0.86	58	94	
		<0.01	1.70		45	60		1.5	3,730	0.31	0.06	13	0.17	1.00	6.7	0.88	52	60	
		0.01	0.50		48	58		2.6	1,160	0.27	0.04	13	0.12	3.20	7.4	0.74	52	59	
B5	Blesbokspruit @ Welgedacht S26.215 E28.480	<0.01	7.70		67	84		2.3		0.21	0.06	14	0.17	0.42	7.4	0.57	64	115	
		<0.01	1.80		63	82		2.5		0.43	0.04	15	0.36	0.65	7.2	0.47	62	120	
		<0.01	0.66		42	56		3.4		0.31	0.15	14	0.28	0.30	7.5	0.48	46	83	
		0.02	0.42		50	62		2.9		0.28	0.03	14	0.32	1.40	7.4	0.36	52	99	
B16	Train Bridge @ Grootvlei Mine S26.256 E28.498	<0.01	2.70		84	86		2.7		0.25	0.02	17	0.22	1.20	7.6	1.20	84	135	
		<0.01	5.00		74	91		2.0		0.35	0.04	18	0.55	0.33	7.5	1.90	75	120	
		<0.01	1.40		46	60		1.8		0.37	0.05	16	0.46	0.24	7.5	0.92	46	83	
		0.03	0.38		50	68		2.7		0.26	0.03	16	0.16	0.96	7.7	0.42	49	100	
B6	Klein Blesbokspruit @ Selection Park S26.283 E28.444	<0.01	0.12		46	48		7.2		0.30	0.03	12	0.20	0.42	7.6	0.06	34	58	
		0.02	0.68		44	58		5.2		0.41	0.03	14	0.29	0.44	7.3	0.21	37	70	
		0.06	0.22		36	48		6.9		2.00	0.04	15	0.50	0.15	7.6	0.12	32	84	
		0.09	0.26		48	54		8.8		0.34	0.02	16	0.35	0.60	7.7	0.19	40	90	
B15	Blesbokspruit on N17 Toll Road @ Springs S26.271 E28.504	<0.01	1.70		89	84		3.4		0.26	0.02	18	0.20	1.40	7.5	1.10	85	140	
		<0.01	3.00		79	90		2.1		0.36	0.04	18	1.00	0.27	7.4	2.00	77	125	
		<0.01	1.40		47	60		1.8		0.32	0.05	16	0.54	0.17	7.5	0.95	46	125	
		0.02	0.23		58	69		2.8		0.33	0.02	17	0.14	0.30	7.6	0.36	54	101	
B17	Blesbokspruit @ Marievale Bird Sanctuary S26.359 E28.508	<0.01	0.38		90	92		4.2		0.27	0.03	18	0.46	1.10	7.7	0.58	78	145	
		<0.01	0.19		99	105		1.9		0.41	0.02	23	1.10	<0.10	7.6	0.90	99	150	
		0.02	0.22		52	65		3.0		0.38	0.02	18	1.60	0.96	7.7	0.90	51	85	
		0.01	3.10		56	69		3.1		0.33	0.03	18	0.34	0.28	7.6	0.87	52	102	
B11	Blesbokspruit on R42 bridge @ Nigel S26.391 E28.497	<0.01	1.00		75	91		5.0		0.30	0.07	17	0.24	0.90	7.8	0.57	68	120	
		0.02	0.19		84	105		4.6		0.43	0.04	21	0.27	<0.10	7.9	0.78	88	130	
		<0.01	0.22		50	65		3.4		0.39	0.04	16	0.34	<0.10	7.9	0.86	44	78	
		0.01	0.86		54	68		7.9		0.40	0.01	18	0.13	0.16	7.9	0.59	50	94	
B7	Stormwater drain from Nigel Dam S26.416 E28.466	0.05	0.57		35	59		4.6		0.36	0.27	14	1.20	0.78	7.4	0.06	52	110	
		<0.01	0.82		45	115		4.2		0.41	0.03	33	4.20	0.33	6.6	0.08	62	295	
		<0.01	0.27		42	65		4.3		0.44	0.10	18	1.50	<0.10	7.5	0.15	54	155	
		0.05	0.32		39	74		5.4		0.42	0.02	21	1.80	0.18	7.0	0.08	44	224	
B8	Blesbokspruit @ Nigel S26.439 E28.456	<0.01	0.17		90	89		6.3	4,740	0.28	0.02	18	0.15	0.42	8.2	0.54	79	145	
		<0.01	0.29		93	99		4.0	7,210	0.41	0.02	23	0.37	0.63	7.9	0.70	87	145	
		<0.01	0.22		46	61		5.7	13,060	0.39	0.01	17	0.14	<0.10	8.0	0.81	50	74	
		0.02	0.14		43	62		5.5	24,810	0.34	0.01	18	0.92	0.40	7.8	0.43	44	122	
B14	Bridge @ Jameson Park S26.479 E28.426	<0.01	1.60		81	84		4.8		0.28	0.03	18	0.14	1.20	7.9	0.85	77	125	
		<0.01	0.70		79	88		2.7		0.38	0.06	18	0.16	1.30	7.5	0.86	72	125	
		<0.01	0.34		48	61		4.8		0.39	0.02	16	0.06	0.53	7.9	0.66	48	73	
		0.02	0.16		46	60		5.8		0.34	0.03	16	0.10	1.50	7.8	0.55	44	77	

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B12	Stream from Kaydale Station S26.477 E28.404	0.16	7.40		29	48		4.7		0.22	0.17	11	0.12	4.00	7.4	1.10	32	38	
		0.21	4.90		31	53		3.1		0.27	0.05	10	0.17	2.50	7.3	0.57	33	45	
		0.02	1.10		23	43		4.2		0.31	0.06	13	0.25	2.40	7.4	0.39	32	39	
		0.03	1.30		31	48		4.8		0.25	0.02	11	0.17	3.20	7.2	0.73	32	44	
B10	Blesbokspruit Weir @ Heidelberg S26.511 E28.351	0.01	0.50	26	67	76	100	6.0	405	0.29	0.05	16	0.13	2.30	7.7	0.60	66	105	17
		0.01	0.90	36	63	78	100	4.3	2980	0.37	0.03	16	0.18	2.50	7.7	0.64	61	93	45
		0.01	0.24	24	39	56	99	5.4	7970	0.35	0.04	16	0.08	1.10	7.9	0.58	45	61	53
		0.01	0.18	22	45	57	100	9.5	14040	0.34	0.02	15	0.06	1.70	7.8	0.52	45	81	12
S1	Suikerbosrant River @ Heidelberg S26.630 E28.297	0.09	0.10		25	38		5.2	64	0.23	0.10	13	0.03	0.66	7.5	0.09	21	29	
		0.16	0.21		42	46		3.1	500	0.35	0.09	15	0.04	0.78	7.4	0.26	37	18	
		0.43	0.25		11	22		3.9	1030	0.34	0.37	9	0.13	0.46	7.4	0.18	14	17	
		0.06	0.22		21	33		8.6	93	0.32	0.10	14	0.05	0.12	7.5	0.12	21	24	
S2	Suikerbosrant River Weir @ Three Rivers S26.671 E28.031	0.01	0.11	21	68	74	100	6.3	83	0.28	0.05	17	0.03	2.50	8.2	0.29	65	100	18
		0.08	0.18	32	60	69	100	5.9	1840	0.32	0.03	16	0.01	1.60	7.9	0.36	59	81	37
		0.06	0.24	31	35	48	95	6.9	1390	0.32	0.05	14	0.05	0.99	8.1	0.37	35	47	66
		0.02	0.18	21	43	55	98	7.9	185	0.33	0.02	15	0.03	1.80	8.1	0.30	40	73	<10

Key

B12	Stream from Kaydale Station	0.16	7.40	- 1 Jul to 30 Sep 2013
		0.21	4.90	- 1 Oct to 31 Dec 2013
		0.02	1.10	- 1 Jan to 31 Mar 2014
		0.03	1.30	- 1 Apr to 30 Jun 2014

Water Quality Guidelines

	- Ideal
	- Acceptable
	- Tolerable
	- Unacceptable

Data supplied by Rand Water. For all water quality queries contact DWA Gauteng Regional Office staff member responsible for the Blesbokspruit Catchment. Contact details can be obtained from The Reservoir website www.reservoir.co.za/contact.htm