

Drinking Water Quality Annual Report Data 01/07/2018 to 30/06/2019

Table 23 Aesthetic (Non-health related) Variables

Great Southern Region	Alkalinity (as CaCO3)				Aluminium				Chloride				Hardness							
	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met					
		Min Value	Max Value	Mean Value			Min	Max	Mean			Min Value	Max Value	Mean Value		Min	Max	Mean		
Albany	16	150	240	202	(1)	16	<0.008	<0.008	<0.008	✓	16	110	135	122	✓	16	170	300	249	(3)
Boddington	2	7	10	9	(1)	2	0.018	0.020	0.019	✓	2	60	65	63	✓	2	28	35	32	✓
Borden	2	15	43	29	(1)	2	0.030	0.090	0.060	✓	2	15	26	21	✓	2	20	41	31	✓
Bremer Bay	4	270	290	275	(1)	4	<0.008	<0.008	<0.008	✓	4	125	190	155	✓	4	170	230	208	(3)
Brookton	2	12	12	12	(1)	2	0.025	0.055	0.040	✓	2	70	85	78	✓	2	43	55	49	✓
Broomehill	2	15	15	15	(1)	2	0.020	0.020	0.020	✓	2	75	95	85	✓	2	50	54	52	✓
Bullaring	4	11	52	29	(1)	4	0.010	0.035	0.019	✓	4	70	95	83	✓	4	47	88	62	✓
Condingup	4	130	140	133	(1)	4	<0.008	<0.008	<0.008	✓	4	360	405	383	(2)	4	78	80	79	✓
Cranbrook	2	8	9	9	(1)	2	0.012	0.020	0.016	✓	2	19	26	23	✓	2	18	19	19	✓
Cuballing	2	3	9	6	(1)	2	0.012	0.025	0.019	✓	2	65	90	78	✓	2	29	44	37	✓
Denmark	5	7	9	8	(1)	5	0.012	0.018	0.016	✓	5	205	295	249	✓	5	72	110	92	✓
Dudin TWS	4	17	31	22	(1)	4	0.008	0.045	0.020	✓	4	70	100	86	✓	4	51	72	61	✓
Dumbleyung	2	21	22	22	(1)	2	0.012	0.018	0.015	✓	2	65	90	78	✓	2	46	59	53	✓
Esperance	10	260	300	271	(1)	10	<0.008	<0.008	<0.008	✓	10	170	215	199	✓	10	340	370	351	(3)
Frankland	4	1	4	3	(1)	4	<0.008	0.030	0.010	✓	4	13	16	15	✓	4	10	11	11	✓
Gibson	4	68	72	70	(1)	4	<0.008	<0.008	<0.008	✓	4	205	225	215	✓	4	43	45	44	✓
Gnowangerup	5	15	24	20	(1)	5	0.016	0.025	0.022	✓	5	80	105	92	✓	5	53	62	57	✓
Grass Patch	4	270	270	270	(1)	4	<0.008	0.010	<0.008	✓	4	185	205	194	✓	4	350	380	363	(3)
Harrismith TWS	4	14	23	18	(1)	4	0.016	0.020	0.018	✓	4	65	95	80	✓	4	49	61	53	✓
Highbury	4	4	12	8	(1)	4	0.014	0.030	0.019	✓	4	65	90	79	✓	4	32	42	38	✓
Hopetoun	5	41	150	84	(1)	5	<0.008	<0.008	<0.008	✓	5	130	300	232	✓	5	63	170	105	✓
Hyden	4	16	23	20	(1)	4	0.014	0.020	0.017	✓	4	42	100	81	✓	4	42	65	57	✓
Jerramungup	4	7	270	73	(1)	4	<0.008	0.025	0.010	✓	4	46	155	82	✓	4	19	210	70	✓
Karlgarin	2	18	26	22	(1)	2	0.014	0.018	0.016	✓	2	90	100	95	✓	2	62	67	65	✓
Katanning	4	9	15	12	(1)	4	<0.008	0.016	0.011	✓	4	75	100	89	✓	4	40	55	48	✓
Kendenup	4	200	220	210	(1)	4	<0.008	<0.008	<0.008	✓	4	115	120	119	✓	4	250	290	270	(3)
Kojonup	2	14	17	16	(1)	2	0.020	0.025	0.023	✓	2	70	95	83	✓	2	49	56	53	✓
Kondinin	4	21	26	23	(1)	4	0.016	0.025	0.022	✓	4	85	105	95	✓	4	58	70	63	✓
Kukerin	4	22	24	23	(1)	4	0.012	0.018	0.016	✓	4	70	95	83	✓	4	54	62	59	✓
Kulin	4	16	22	20	(1)	4	0.012	0.018	0.015	✓	4	65	95	80	✓	4	49	60	53	✓
Lake Grace	5	23	32	27	(1)	5	0.008	0.025	0.015	✓	5	70	95	84	✓	5	55	63	60	✓
Lake King	2	25	27	26	(1)	2	0.016	0.016	0.016	✓	2	75	95	85	✓	2	59	63	61	✓
Mt Barker	4	200	240	218	(1)	4	<0.008	<0.008	<0.008	✓	4	110	120	116	✓	4	260	280	268	(3)
Munglinup	2	6	120	63	(1)	2	<0.008	0.014	<0.008	✓	2	34	105	70	✓	2	16	150	83	✓
Muradup	2	17	24	21	(1)	2	0.020	0.025	0.023	✓	2	90	100	95	✓	2	52	60	56	✓
Narrakup	4	210	230	218	(1)	4	<0.008	<0.008	<0.008	✓	4	115	120	118	✓	4	260	280	270	(3)
Narrogin	4	4	12	8	(1)	4	0.014	0.018	0.016	✓	4	60	90	78	✓	4	28	44	38	✓
Newdegate	2	25	27	26	(1)	2	0.018	0.025	0.022	✓	2	70	95	83	✓	2	58	65	62	✓
Nyabing	2	10	15	13	(1)	2	0.010	0.012	0.011	✓	2	85	95	90	✓	2	46	51	49	✓
Ongerup	2	33	110	72	(1)	2	<0.008	0.040	0.020	✓	2	43	100	72	✓	2	29	150	90	✓
Pingaring	4	18	33	25	(1)	4	0.012	0.018	0.016	✓	4	70	95	81	✓	4	52	71	61	✓
Pingelly	3	6	13	10	(1)	3	0.016	0.025	0.019	✓	3	70	95	87	✓	3	37	53	47	✓
Pingrup	2	8	16	12	(1)	2	0.012	0.012	0.012	✓	2	80	95	88	✓	2	44	52	48	✓
Popanyinning	2	7	7	7	(1)	2	0.014	0.014	0.014	✓	2	75	85	80	✓	2	37	43	40	✓
Ravensthorpe	4	25	170	73	(1)	4	<0.008	0.040	0.022	✓	4	32	270	156	✓	4	26	190	86	✓
Rocky Gully	4	200	220	208	(1)	4	<0.008	<0.008	<0.008	✓	4	105	125	118	✓	4	240	280	265	(3)
Salmon Gums	4	190	200	193	(1)	4	0.012	0.025	0.017	✓	4	41	43	42	✓	4	110	110	110	✓
Tambellup	2	15	23	19	(1)	2	0.018	0.025	0.022	✓	2	90	100	95	✓	2	55	62	59	✓
Tincurrin TWS	4	15	18	17	(1)	4	0.018	0.035	0.025	✓	4	65	100	84	✓	4	45	61	54	✓
Varley	2	24	28	26	(1)	2	0.020	0.020	0.020	✓	2	70	100	85	✓	2	56	64	60	✓
Wagin	2	10	10	10	(1)	2	0.012	0.018	0.015	✓	2	80	85	83	✓	2	42	44	43	✓
Walpole	4	16	25	20	(1)	4	0.010	0.014	0.012	✓	4	100	140	119	✓	4	40	53	46	✓
Wandering	2	11	12	12	(1)	2	0.016	0.020	0.018	✓	2	60	75	68	✓	2	34	41	38	✓
Wellstead	2	6	210	108	(1)	2	<0.008	0.016	<0.008	✓	2	40	120	80	✓	2	15	260	138	✓
Wickepin TWS	4	4	13	8	(1)	4	0.012	0.018	0.015	✓	4	65	90	80	✓	4	34	47	41	✓
Williams	2	8	16	12	(1)	2	0.012	0.025	0.019	✓	2	75	90	83	✓	2	37	43	40	✓
Woodanilling	2	10	12	11	(1)	2	0.020	0.060	0.040	✓	2	65	90	78	✓	2	38	47	43	✓
Yealering	4	17	26	22	(1)	4	0.014	0.030	0.022	✓	4	65	95	80	✓	4	44	59	53	✓

(1) No guideline value available as per ADWG 2011. (2) Elevated chloride is characteristic of the source supplying this locality. (3) Elevated hardness is characteristic of the source supplying this locality



Drinking Water Quality Annual Report Data 01/07/2018 to 30/06/2019

Table 25 Aesthetic (Non-health related) Variables

Great Southern Region	Sodium				TDS				True Colour				Turbidity							
Locality	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (TCU)			Guideline Met	Samples Taken	Value (NTU)			Guideline Met
		Min Value	Max Value	Mean Value			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Albany	16	59	81	67	✓	16	497	630	580	✓	16	<1	<1	<1	✓	16	0.1	4.5	0.6	✓
Boddington	2	30	34	32	✓	2	125	149	137	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Borden	2	7.5	17	12	✓	2	58	124	91	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Bremer Bay	4	120	185	146	✓	4	761	871	819	(2)	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Brookton	2	34	44	39	✓	2	156	189	173	✓	2	<1	2	1	✓	2	0.3	0.8	0.6	✓
Broomehill	2	37	45	41	✓	2	166	200	183	✓	2	3	7	5	✓	2	0.5	1.2	0.9	✓
Bullaring	4	32	48	40	✓	4	169	249	201	✓	4	<1	<1	<1	✓	4	0.1	0.9	0.4	✓
Condongup	4	280	310	299	(1)	4	968	1036	1009	(2)	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Cranbrook	2	9	14	12	✓	2	59	74	67	✓	2	1	2	2	✓	2	0.5	0.6	0.6	✓
Cuballing	2	32	44	38	✓	2	132	184	158	✓	2	2	2	2	✓	2	0.4	0.5	0.5	✓
Denmark	5	110	155	132	✓	5	381	530	456	✓	5	<1	<1	<1	✓	5	<0.1	0.2	0.1	✓
Dudin TWS	4	33	46	41	✓	4	163	224	195	✓	4	<1	2	1	✓	4	0.4	3.9	1.3	✓
Dumbleyung	2	30	41	36	✓	2	154	199	177	✓	2	<1	1	<1	✓	2	0.3	0.3	0.3	✓
Esperance	10	105	115	109	✓	10	800	856	821	(2)	10	<1	<1	<1	✓	10	<0.1	0.2	0.1	✓
Frankland	4	5.5	7	6	✓	4	37	41	39	✓	4	<1	<1	<1	✓	4	<0.1	0.2	0.1	✓
Gibson	4	175	190	185	(1)	4	615	646	635	(2)	4	<1	<1	<1	✓	4	0.3	0.9	0.5	✓
Gnowangerup	5	36	48	43	✓	5	181	226	201	✓	5	1	5	3	✓	5	0.3	1.0	0.6	✓
Grass Patch	4	100	115	109	✓	4	802	848	828	(2)	4	<1	<1	<1	✓	4	<0.1	0.2	0.1	✓
Harrismith TWS	4	33	49	40	✓	4	153	216	181	✓	4	<1	3	2	✓	4	0.4	1.6	0.9	✓
Highbury	4	34	44	40	✓	4	136	184	164	✓	4	<1	2	2	✓	4	0.4	0.7	0.6	✓
Hopetoun	5	81	185	147	✓	5	490	636	578	✓	5	<1	<1	<1	✓	5	<0.1	0.2	0.1	✓
Hyden	4	21	49	39	✓	4	116	223	186	✓	4	<1	<1	<1	✓	4	0.2	0.3	0.2	✓
Jerramungup	4	27	125	56	✓	4	107	783	292	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Karlgarin	2	41	48	45	✓	2	200	229	215	✓	2	<1	<1	<1	✓	2	0.3	0.5	0.4	✓
Katanning	4	35	47	42	✓	4	156	208	183	✓	4	1	5	3	✓	4	0.5	7.6	3	✓
Kendenup	4	61	65	64	✓	4	569	608	592	✓	4	<1	<1	<1	✓	4	0.2	0.5	0.3	✓
Kojonup	2	35	46	41	✓	2	157	203	180	✓	2	3	7	5	✓	2	0.4	1.0	0.7	✓
Kondinin	4	36	51	44	✓	4	188	238	213	✓	4	<1	<1	<1	✓	4	0.2	0.5	0.3	✓
Kukerin	4	31	44	39	✓	4	169	209	192	✓	4	<1	<1	<1	✓	4	0.2	0.3	0.3	✓
Kulin	4	32	45	38	✓	4	158	213	183	✓	4	<1	2	1	✓	4	0.2	0.5	0.3	✓
Lake Grace	5	31	45	40	✓	5	169	218	199	✓	5	<1	2	1	✓	5	0.2	0.5	0.3	✓
Lake King	2	34	44	39	✓	2	180	219	200	✓	2	<1	2	1	✓	2	0.1	0.3	0.2	✓
Mt Barker	4	60	65	63	✓	4	581	622	597	✓	4	<1	<1	<1	✓	4	0.1	0.5	0.3	✓
Munglinup	2	18	55	37	✓	2	93	397	245	✓	2	<1	8	4	✓	2	0.8	0.8	0.8	✓
Muradup	2	44	50	47	✓	2	194	223	209	✓	2	2	4	3	✓	2	0.4	0.7	0.6	✓
Narrakup	4	61	65	63	✓	4	591	604	599	✓	4	<1	<1	<1	✓	4	0.2	0.5	0.3	✓
Narrogin	4	31	43	38	✓	4	128	185	163	✓	4	1	3	2	✓	4	0.2	0.5	0.4	✓
Newdegate	2	34	46	40	✓	2	179	222	201	✓	2	2	2	2	✓	2	0.2	0.5	0.4	✓
Nyabing	2	40	46	43	✓	2	171	199	185	✓	2	1	4	3	✓	2	0.4	0.6	0.5	✓
Ongerup	2	28	52	40	✓	2	140	374	257	✓	2	<1	2	1	✓	2	<0.1	0.5	0.3	✓
Pingaring	4	32	44	38	✓	4	163	226	191	✓	4	<1	2	1	✓	4	0.2	0.4	0.3	✓
Pingelly	3	35	45	41	✓	3	147	197	179	✓	3	<1	3	2	✓	3	0.1	0.4	0.3	✓
Pingrup	2	36	47	42	✓	2	158	202	180	✓	2	1	5	3	✓	2	0.6	1.2	0.9	✓
Popanyinning	2	38	40	39	✓	2	155	173	164	✓	2	<1	4	2	✓	2	0.3	0.8	0.6	✓
Ravensthorpe	4	22	165	97	✓	4	115	634	415	✓	4	<1	3	2	✓	4	0.1	0.8	0.5	✓
Rocky Gully	4	57	67	63	✓	4	545	600	581	✓	4	<1	<1	<1	✓	4	0.3	0.5	0.4	✓
Salmon Gums	4	58	66	62	✓	4	388	411	396	✓	4	<1	<1	<1	✓	4	<0.1	0.2	0.1	✓
Tambellup	2	40	48	44	✓	2	190	220	205	✓	2	2	4	3	✓	2	0.5	0.8	0.7	✓
Tincurrin TWS	4	32	45	41	✓	4	152	206	187	✓	4	1	4	3	✓	4	0.5	0.8	0.6	✓
Varley	2	32	46	39	✓	2	170	227	199	✓	2	<1	<1	<1	✓	2	0.2	0.6	0.4	✓
Wagin	2	40	40	40	✓	2	169	175	172	✓	2	1	5	3	✓	2	0.3	0.9	0.6	✓
Walpole	4	70	88	77	✓	4	263	299	282	✓	4	<1	<1	<1	✓	4	<0.1	0.2	0.1	✓
Wandering	2	32	39	36	✓	2	139	169	154	✓	2	<1	1	<1	✓	2	0.5	0.8	0.7	✓
Wellstead	2	22	62	42	✓	2	88	581	335	✓	2	<1	1	<1	✓	2	0.3	0.8	0.6	✓
Wickepin TWS	4	32	47	40	✓	4	138	191	167	✓	4	<1	3	2	✓	4	0.3	0.5	0.4	✓
Williams	2	37	43	40	✓	2	159	194	177	✓	2	<1	2	1	✓	2	0.4	0.7	0.6	✓
Woodanilling	2	33	45	39	✓	2	145	190	168	✓	2	2	3	3	✓	2	0.6	0.6	0.6	✓
Yealering	4	32	49	41	✓	4	154	219	190	✓	4	<1	2	1	✓	4	0.1	0.6	0.3	✓

(1) Elevated sodium is characteristic of the source supplying this locality. (2) Elevated TDS is characteristic of the source supplying this locality.