

Drinking Water Quality Annual Report Data 01/07/2020 to 30/06/2021

Table 18 Aesthetic (Non-health related) Variables

South West Region	Aesthetic (Non-health related) Variables																			
Locality	Alkalinity (as CaCO ₃)					Aluminium					Chloride					Hardness				
	Samples Taken	Concentration (mg/L)			Guideline Met	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	
Allanson	2	6.0	6.0	6.0	(1)	2	0.020	0.020	0.020	✓	2	60.0	65.0	62.5	✓	2	24	25	25	✓
Augusta	2	50.0	65.0	57.5	(1)	2	<0.008	<0.008	<0.008	✓	2	130.0	150.0	140.0	✓	2	86	88	87	✓
Australind	7	130.0	140.0	138.6	(1)	7	<0.008	<0.008	<0.008	✓	7	150.0	175.0	162.9	✓	7	76	110	91	✓
Balingup	2	95.0	110.0	102.5	(1)	2	0.018	0.018	0.018	✓	2	100.0	100.0	100.0	✓	2	110	120	115	✓
Binningup	2	49.0	53.0	51.0	(1)	2	0.035	0.045	0.040	✓	2	33.0	50.0	41.5	✓	2	49	53	51	✓
Boyanup	2	110.0	110.0	110.0	(1)	2	<0.008	<0.008	<0.008	✓	2	100.0	105.0	102.5	✓	2	99	100	100	✓
Boyup Brook	2	95.0	98.0	96.5	(1)	2	0.012	0.016	0.014	✓	2	95.0	105.0	100.0	✓	2	120	120	120	✓
Bridgetown	4	86.0	97.0	92.8	(1)	4	<0.008	0.050	0.025	✓	4	95.0	105.0	101.3	✓	4	100	120	110	✓
Brunswick Junction	2	130.0	140.0	135.0	(1)	2	<0.008	<0.008	<0.008	✓	2	170.0	170.0	170.0	✓	2	77	81	79	✓
Capel	4	74.0	81.0	78.0	(1)	4	<0.008	<0.008	<0.008	✓	4	60.0	60.0	60.0	✓	4	47	49	48	✓
Collie	8	3.0	15.0	7.9	(1)	8	0.012	0.025	0.017	✓	8	60.0	95.0	70.0	✓	8	24	46	30	✓
Cowaramup	4	32.0	43.0	37.8	(1)	4	0.010	0.030	0.023	✓	4	90.0	95.0	91.3	✓	4	39	43	41	✓
Dalyellup	2	140.0	150.0	145.0	(1)	2	<0.008	<0.008	<0.008	✓	2	95.0	180.0	137.5	✓	2	75	95	85	✓
Dardanup	2	65.0	65.0	65.0	(1)	2	<0.008	<0.008	<0.008	✓	2	85.0	85.0	85.0	✓	2	26	26	26	✓
Darkan	2	12.0	17.0	14.5	(1)	2	0.018	0.020	0.019	✓	2	60.0	85.0	72.5	✓	2	36	46	41	✓
Donnybrook	3	69.0	90.0	82.3	(1)	3	0.055	0.440	0.198	✓	3	180.0	240.0	216.7	✓	3	76	100	91	✓
Dunsborough	2	170.0	170.0	170.0	(1)	2	<0.008	<0.008	<0.008	✓	2	80.0	150.0	115.0	✓	2	62	71	67	✓
Eaton	2	100.0	110.0	105.0	(1)	2	<0.008	<0.008	<0.008	✓	2	125.0	130.0	127.5	✓	2	110	110	110	✓
Greenbushes	2	99.0	110.0	104.5	(1)	2	<0.008	0.020	0.010	✓	2	95.0	105.0	100.0	✓	2	110	120	115	✓
Harvey	2	46.0	52.0	49.0	(1)	2	0.030	0.030	0.030	✓	2	33.0	40.0	36.5	✓	2	47	52	50	✓
Hester TWS	4	96.0	110.0	101.5	(1)	4	<0.008	0.030	0.013	✓	4	95.0	115.0	103.8	✓	4	100	130	120	✓
Kirup	4	64.0	100.0	83.8	(1)	4	0.040	0.310	0.164	✓	4	160.0	245.0	208.8	✓	4	61	110	89	✓
Logue Brook	2	58.0	63.0	60.5	(1)	2	0.030	0.130	0.080	✓	2	70.0	125.0	97.5	✓	2	62	69	66	✓
Manjimup	2	73.0	80.0	76.5	(1)	2	0.012	0.035	0.024	✓	2	80.0	90.0	85.0	✓	2	100	110	105	✓
Margaret River	4	33.0	44.0	37.8	(1)	4	0.010	0.030	0.024	✓	4	90.0	100.0	95.0	✓	4	37	42	40	✓
Mullalyup	4	80.0	120.0	99.0	(1)	4	0.070	0.160	0.113	✓	4	190.0	245.0	218.8	✓	4	80	110	96	✓
Myalup	2	54.0	65.0	59.5	(1)	2	<0.008	0.035	0.018	✓	2	30.0	65.0	47.5	✓	2	53	83	68	✓
Nannup	2	17.0	28.0	22.5	(1)	2	<0.008	0.020	0.010	✓	2	70.0	75.0	72.5	✓	2	80	85	83	✓
Northcliffe	2	45.0	58.0	51.5	(1)	2	0.020	0.030	0.025	✓	2	85.0	100.0	92.5	✓	2	78	83	81	✓
Pemberton	2	23.0	28.0	25.5	(1)	2	0.012	0.016	0.014	✓	2	85.0	90.0	87.5	✓	2	52	54	53	✓
Peppermint Grove	2	82.0	88.0	85.0	(1)	2	<0.008	<0.008	<0.008	✓	2	60.0	60.0	60.0	✓	2	53	56	55	✓
Preston Beach	4	260.0	300.0	280.0	(1)	4	<0.008	<0.008	<0.008	✓	4	175.0	245.0	202.5	✓	4	310	320	318	(2)
Quinninup	2	64.0	74.0	69.0	(1)	2	0.014	0.030	0.022	✓	2	85.0	90.0	87.5	✓	2	93	98	96	✓
Waroona	2	47.0	55.0	51.0	(1)	1	0.120	0.120	0.120	✓	2	40.0	41.0	40.5	✓	2	54	55	55	✓
Yarloop	2	53.0	55.0	54.0	(1)	2	0.012	0.035	0.024	✓	2	34.0	42.0	38.0	✓	2	52	57	55	✓

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

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Table 19 Aesthetic (Non-health related) Variables

South West Region	Iron			Manganese			pH			Silicon										
Locality	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (pH units)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min Value	Max Value	Mean Value	
Allanson	2	0.035	0.040	0.038	✓	2	<0.002	0.006	0.003	✓	2	6.39	6.76	6.58	✓	2	5.2	5.5	5.4	✓
Augusta	2	0.070	0.420	0.245	✓	2	0.005	0.014	0.010	✓	2	7.20	7.42	7.31	✓	2	13.0	15.0	14.0	✓
Australind	7	0.020	0.100	0.071	✓	7	<0.002	0.007	0.003	✓	7	7.07	8.26	7.66	✓	7	22.0	60.0	41.6	✓
Balingup	2	0.015	0.020	0.018	✓	2	<0.002	0.004	<0.002	✓	2	8.47	8.54	8.51	(1)	2	3.4	5.3	4.4	✓
Binningup	2	0.008	0.010	0.009	✓	2	<0.002	<0.002	<0.002	✓	2	8.19	8.19	8.19	✓	2	0.9	1.0	1.0	✓
Boyanup	2	0.008	0.020	0.014	✓	2	<0.002	<0.002	<0.002	✓	2	7.42	7.98	7.70	✓	2	19.0	19.0	19.0	✓
Boyup Brook	2	0.020	0.020	0.020	✓	2	<0.002	0.003	<0.002	✓	2	7.81	8.18	8.00	✓	2	3.5	5.4	4.5	✓
Bridgetown	4	0.010	0.025	0.019	✓	4	<0.002	0.003	<0.002	✓	4	7.48	8.05	7.78	✓	4	3.6	4.9	4.3	✓
Brunswick Junction	2	0.090	0.100	0.095	✓	2	0.008	0.008	0.008	✓	2	7.84	7.91	7.88	✓	2	50.0	55.0	52.5	✓
Capel	4	0.060	0.070	0.065	✓	4	<0.002	<0.002	<0.002	✓	4	6.61	6.77	6.71	✓	4	14.0	16.0	14.8	✓
Collie	8	0.035	0.080	0.060	✓	8	<0.002	0.030	0.010	✓	8	6.29	6.68	6.55	✓	8	1.6	5.5	4.3	✓
Cowaramup	4	0.060	0.240	0.175	✓	4	0.005	0.007	0.006	✓	4	7.33	7.57	7.49	✓	4	7.2	8.7	8.2	✓
Dalyellup	2	0.070	0.070	0.070	✓	2	0.012	0.016	0.014	✓	2	7.99	8.29	8.14	✓	2	14.0	17.0	15.5	✓
Dardanup	2	0.010	0.015	0.013	✓	2	<0.002	<0.002	<0.002	✓	2	7.35	7.42	7.39	✓	2	20.0	21.0	20.5	✓
Darkan	2	0.060	0.070	0.065	✓	2	0.002	0.018	0.010	✓	2	7.25	8.68	7.97	✓	2	3.3	3.8	3.6	✓
Donnybrook	3	0.015	0.080	0.048	✓	3	0.002	0.008	0.005	✓	3	6.82	7.57	7.32	✓	3	10.0	13.0	11.3	✓
Dunsborough	2	0.004	0.006	0.005	✓	2	<0.002	<0.002	<0.002	✓	2	8.37	8.43	8.40	✓	2	17.0	18.0	17.5	✓
Eaton	2	0.080	0.080	0.080	✓	2	<0.002	<0.002	<0.002	✓	2	7.38	7.51	7.45	✓	2	27.0	29.0	28.0	✓
Greenbushes	2	0.020	0.020	0.020	✓	2	<0.002	0.004	<0.002	✓	2	7.99	8.11	8.05	✓	2	3.7	6.6	5.2	✓
Harvey	2	0.006	0.020	0.013	✓	2	<0.002	<0.002	<0.002	✓	2	8.32	8.65	8.49	✓	2	0.8	0.9	0.9	✓
Hester TWS	4	0.015	0.040	0.024	✓	4	<0.002	0.010	0.003	✓	4	7.93	8.54	8.30	✓	4	2.0	6.5	4.4	✓
Kirup	4	0.006	0.015	0.009	✓	4	0.002	0.020	0.008	✓	4	7.53	7.90	7.71	✓	4	9.5	19.0	13.4	✓
Logue Brook	2	0.010	0.010	0.010	✓	2	<0.002	<0.002	<0.002	✓	3	7.69	7.95	7.83	✓	2	4.7	5.1	4.9	✓
Manjimup	2	0.035	0.100	0.068	✓	2	0.002	0.016	0.009	✓	2	8.11	8.17	8.14	✓	2	7.1	9.2	8.2	✓
Margaret River	4	0.070	0.260	0.183	✓	4	0.004	0.007	0.006	✓	4	7.15	7.69	7.35	✓	4	7.0	8.7	8.1	✓
Mullalyup	4	<0.003	0.035	0.009	✓	4	<0.002	0.020	0.005	✓	4	8.04	8.25	8.14	✓	4	11.0	17.0	12.8	✓
Myalup	2	0.004	0.015	0.010	✓	2	<0.002	0.016	0.008	✓	2	7.77	8.69	8.23	✓	2	1.3	4.2	2.8	✓
Nannup	2	0.015	0.020	0.018	✓	2	<0.002	<0.002	<0.002	✓	2	7.42	7.51	7.47	✓	2	3.2	5.8	4.5	✓
Northcliffe	2	0.030	0.040	0.035	✓	2	0.010	0.020	0.015	✓	2	7.94	8.04	7.99	✓	2	6.1	7.1	6.6	✓
Pemberton	2	0.015	0.015	0.015	✓	2	<0.002	0.007	0.004	✓	2	7.36	7.59	7.48	✓	2	5.0	5.4	5.2	✓
Peppermint Grove	2	0.030	0.040	0.035	✓	2	<0.002	<0.002	<0.002	✓	2	7.42	7.56	7.49	✓	2	15.0	15.0	15.0	✓
Preston Beach	4	0.004	0.010	0.007	✓	4	<0.002	<0.002	<0.002	✓	4	8.29	8.49	8.41	✓	4	15.0	18.0	16.5	✓
Quinninup	2	0.030	0.070	0.050	✓	2	0.005	0.006	0.006	✓	2	8.23	8.35	8.29	✓	2	6.2	7.4	6.8	✓
Waroona	2	0.004	0.004	0.004	✓	2	<0.002	<0.002	<0.002	✓	2	8.42	8.97	8.70	(2)	2	1.5	1.8	1.7	✓
Yarloop	2	0.006	0.010	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	7.75	7.83	7.79	✓	2	0.9	0.9	0.9	✓

(1) Elevated pH is caused by leaching of calcium carbonate from the protective cement lining of the pipes after long water transit times. This characteristic is found in a number of our localities on our large water supply schemes. Experience shows that pH at this level is not objectionable to our customers. (2) Characteristic of the source supplying the town

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Table 20 Aesthetic (Non-health related) Variables

South West 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	
Allanson	2	32.0	34.0	33.0	✓	2	125	130	128	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Augusta	2	66.0	75.0	70.5	✓	2	342	353	348	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Australind	7	95.0	125.0	112.9	✓	7	518	568	545	✓	7	<1	1	<1	✓	7	0.1	0.4	0.2	✓
Balingup	2	47.0	52.0	49.5	✓	2	329	361	345	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Binningup	2	19.0	30.0	24.5	✓	2	134	169	152	✓	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Boyanup	2	60.0	61.0	60.5	✓	2	374	386	380	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Boyup Brook	2	50.0	54.0	52.0	✓	2	334	349	342	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Bridgetown	4	49.0	54.0	50.5	✓	4	323	342	332	✓	4	<1	<1	<1	✓	4	<0.1	0.3	<0.1	✓
Brunswick Junction	2	125.0	125.0	125.0	✓	2	552	567	560	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Capel	4	45.0	47.0	45.8	✓	4	260	266	264	✓	4	<1	<1	<1	✓	4	<0.1	0.2	0.2	✓
Collie	8	31.0	48.0	37.0	✓	8	120	206	148	✓	8	<1	<1	<1	✓	8	0.2	0.6	0.3	✓
Cowaramup	4	48.0	52.0	49.8	✓	4	232	252	241	✓	4	<1	5	3	✓	4	0.3	0.9	0.5	✓
Dalyellup	2	77.0	140.0	108.5	✓	2	421	588	505	✓	2	<1	<1	<1	✓	2	0.3	0.3	0.3	✓
Dardanup	2	64.0	66.0	65.0	✓	2	267	273	270	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Darkan	2	33.0	45.0	39.0	✓	2	140	193	167	✓	2	<1	<1	<1	✓	2	0.2	0.5	0.4	✓
Donnybrook	3	130.0	150.0	140.0	✓	3	478	562	525	✓	3	<1	<1	<1	✓	3	0.2	0.4	0.3	✓
Dunsborough	2	105.0	135.0	120.0	✓	2	451	574	513	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Eaton	2	68.0	73.0	70.5	✓	2	410	437	424	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Greenbushes	2	51.0	52.0	51.5	✓	2	340	352	346	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Harvey	2	19.0	26.0	22.5	✓	2	129	152	141	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Hester TWS	4	50.0	57.0	52.3	✓	4	344	359	352	✓	4	<1	2	<1	✓	4	0.1	0.2	0.2	✓
Kirup	4	120.0	155.0	140.0	✓	4	455	597	519	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Logue Brook	2	41.0	74.0	57.5	✓	2	219	318	269	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Manjimup	2	45.0	50.0	47.5	✓	2	292	311	302	✓	2	<1	2	<1	✓	2	0.2	0.4	0.3	✓
Margaret River	4	49.0	54.0	51.0	✓	4	231	258	245	✓	4	<1	5	3	✓	4	0.3	1.3	0.8	✓
Mullalyup	4	135.0	160.0	145.0	✓	4	518	610	551	✓	4	<1	<1	<1	✓	4	<0.1	0.4	0.2	✓
Myalup	2	19.0	35.0	27.0	✓	2	137	227	182	✓	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Nannup	2	55.0	62.0	58.5	✓	2	283	298	291	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Northcliffe	2	53.0	58.0	55.5	✓	2	287	292	290	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Pemberton	2	60.0	62.0	61.0	✓	2	258	259	259	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Peppermint Grove	2	47.0	48.0	47.5	✓	2	275	280	278	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Preston Beach	4	89.0	140.0	110.3	✓	4	792	864	818	(1)	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Quinninup	2	46.0	53.0	49.5	✓	2	290	295	293	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Waroona	2	24.0	27.0	25.5	✓	2	147	157	152	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Yarloop	2	20.0	27.0	23.5	✓	2	144	160	152	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓

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