

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

Table 3 Aesthetic (Non-health related) Variables

Perth Region	Alkalinity (as CaCO <sub>3</sub> )				Aluminium				Chloride				Hardness							
Locality	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	
Armadale/Kelmscott	2	61.0	67.0	64.0	(1)	2	0.014	0.020	0.017	✓	2	155.0	165.0	160.0	✓	2	75	81	78	✓
Bold Park	2	45.0	71.0	58.0	(1)	2	0.014	0.020	0.017	✓	2	38.0	115.0	76.5	✓	2	50	80	65	✓
Buckland Hill	5	68.0	91.0	79.2	(1)	5	0.008	0.018	0.013	✓	5	130.0	235.0	189.0	✓	5	65	89	74	✓
Dwellingup	2	8.0	13.0	10.5	(1)	2	0.008	0.010	0.009	✓	2	60.0	70.0	65.0	✓	2	28	30	29	✓
Foothills	2	87.0	110.0	98.5	(1)	2	0.014	0.016	0.015	✓	2	165.0	175.0	170.0	✓	2	93	110	102	✓
Greenmount	5	74.0	130.0	104.4	(1)	5	<0.008	0.020	<0.008	✓	5	110.0	180.0	153.0	✓	5	75	110	93	✓
Greenmount/Darlington	5	57.0	94.0	74.6	(1)	5	<0.008	0.018	0.011	✓	5	90.0	160.0	130.0	✓	5	69	88	81	✓
Hamilton Hill	2	70.0	84.0	77.0	(1)	2	0.008	0.014	0.011	✓	2	140.0	195.0	167.5	✓	2	85	95	90	✓
Hills Direct	2	35.0	46.0	40.5	(1)	2	0.018	0.025	0.022	✓	2	55.0	65.0	60.0	✓	2	48	55	52	✓
Lexia	2	94.0	95.0	94.5	(1)	2	0.018	0.020	0.019	✓	2	90.0	115.0	102.5	✓	2	100	160	130	✓
Mandurah	4	49.0	54.0	51.5	(1)	4	0.018	0.035	0.027	✓	4	34.0	41.0	37.8	✓	4	48	54	52	✓
Melville	4	43.0	66.0	57.5	(1)	4	0.014	0.025	0.020	✓	4	80.0	145.0	117.5	✓	4	53	56	55	✓
Mirrabooka	4	49.0	61.0	54.8	(1)	4	0.014	0.035	0.022	✓	4	150.0	215.0	195.0	✓	4	80	140	120	✓
Mt. Eliza	4	71.0	81.0	74.5	(1)	4	0.012	0.016	0.014	✓	4	170.0	210.0	187.5	✓	4	66	76	70	✓
Mt. Hawthorn	4	60.0	130.0	95.8	(1)	4	<0.008	0.014	<0.008	✓	4	70.0	190.0	152.5	✓	4	59	110	92	✓
Mt. Yokine	4	110.0	120.0	115.0	(1)	4	<0.008	0.012	<0.008	✓	4	160.0	185.0	175.0	✓	4	90	110	103	✓
Mundaring	2	67.0	73.0	70.0	(1)	1	0.012	0.012	0.012	✓	2	170.0	170.0	170.0	✓	2	85	94	90	✓
Neerabup	4	74.0	160.0	133.5	(1)	4	<0.008	0.014	<0.008	✓	4	125.0	140.0	131.3	✓	4	86	180	154	✓
North Dandalup	5	17.0	53.0	43.2	(1)	5	0.012	0.045	0.030	✓	5	31.0	65.0	45.4	✓	5	39	56	48	✓
Pinjarra	2	50.0	53.0	51.5	(1)	2	0.020	0.035	0.028	✓	2	35.0	60.0	47.5	✓	2	51	55	53	✓
South Perth/Kewdale	3	87.0	130.0	109.0	(1)	3	<0.008	0.010	<0.008	✓	3	130.0	180.0	158.3	✓	3	76	110	93	✓
Tamworth Hill	2	49.0	50.0	49.5	(1)	2	0.012	0.020	0.016	✓	2	38.0	42.0	40.0	✓	2	49	52	51	✓
Thomsons Lake	4	58.0	86.0	77.5	(1)	4	<0.008	0.016	<0.008	✓	4	24.0	205.0	153.5	✓	4	55	110	89	✓
Two Rocks	4	190.0	200.0	195.0	(1)	4	<0.008	<0.008	<0.008	✓	4	100.0	110.0	105.0	✓	4	220	230	223	(2)
Wanneroo	5	63.0	110.0	90.6	(1)	5	<0.008	0.045	0.013	✓	5	110.0	160.0	136.0	✓	5	70	120	104	✓
West Yokine	5	110.0	140.0	124.0	(1)	5	<0.008	0.012	<0.008	✓	5	160.0	180.0	171.0	✓	5	110	120	112	✓
Whitfords	2	62.0	80.0	71.0	(1)	2	<0.008	0.014	<0.008	✓	2	140.0	145.0	142.5	✓	2	77	110	94	✓
Yanchep	5	140.0	220.0	184.0	(1)	5	<0.008	<0.008	<0.008	✓	5	110.0	135.0	117.0	✓	5	160	240	208	(2)

(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 4 Aesthetic (Non-health related) Variables**

Perth 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	
Armadale/Kelmscott	2	0.020	0.025	0.023	✓	2	0.002	0.003	0.003	✓	2	7.70	7.91	7.81	✓	2	1.9	2.1	2.0	✓
Bold Park	2	0.020	0.025	0.023	✓	2	0.003	0.003	0.003	✓	2	7.91	8.02	7.97	✓	2	1.0	5.9	3.5	✓
Buckland Hill	5	0.030	0.140	0.067	✓	5	0.002	0.007	0.004	✓	5	7.66	8.13	7.94	✓	5	4.9	8.1	6.5	✓
Dwellingup	2	0.045	0.050	0.048	✓	2	<0.002	0.008	0.004	✓	2	6.88	7.14	7.01	✓	2	1.2	1.5	1.4	✓
Foothills	2	0.015	0.035	0.025	✓	2	0.003	0.005	0.004	✓	2	7.87	7.91	7.89	✓	2	7.8	17.0	12.4	✓
Greenmount	5	<0.003	0.160	0.039	✓	5	<0.002	0.020	0.004	✓	5	7.92	8.38	8.20	✓	5	8.3	18.0	13.3	✓
Greenmount/Darlington	5	0.015	0.040	0.023	✓	5	<0.002	0.007	0.003	✓	5	7.97	8.37	8.18	✓	5	5.7	10.0	7.3	✓
Hamilton Hill	2	0.006	0.010	0.008	✓	2	0.004	0.006	0.005	✓	2	7.93	8.15	8.04	✓	2	4.0	5.1	4.6	✓
Hills Direct	2	0.025	0.045	0.035	✓	2	<0.002	0.005	0.003	✓	2	7.65	7.70	7.68	✓	2	1.3	1.3	1.3	✓
Lexia	2	0.010	0.015	0.013	✓	2	0.003	0.007	0.005	✓	2	7.46	7.68	7.57	✓	2	15.0	17.0	16.0	✓
Mandurah	4	<0.003	0.010	0.006	✓	4	<0.002	<0.002	<0.002	✓	4	8.15	8.33	8.21	✓	4	0.8	0.9	0.9	✓
Melville	4	0.020	0.035	0.030	✓	4	0.003	0.004	0.003	✓	4	7.75	7.98	7.88	✓	4	1.8	4.8	3.6	✓
Mirrabooka	5	0.008	0.640	0.280	✓	4	0.002	0.006	0.004	✓	4	7.11	7.37	7.22	✓	4	15.0	17.0	15.8	✓
Mt. Eliza	4	0.020	0.060	0.035	✓	4	0.002	0.009	0.005	✓	4	8.01	8.19	8.07	✓	4	5.1	6.7	6.1	✓
Mt. Hawthorn	4	0.025	0.035	0.031	✓	4	0.003	0.004	0.004	✓	4	7.75	8.05	7.94	✓	4	4.7	19.0	14.9	✓
Mt. Yokine	4	0.015	0.060	0.038	✓	4	<0.002	0.007	0.004	✓	4	7.70	8.04	7.92	✓	4	18.0	20.0	18.5	✓
Mundaring	2	<0.003	0.008	0.004	✓	2	<0.002	<0.002	<0.002	✓	2	8.13	8.36	8.25	✓	2	4.0	4.7	4.4	✓
Neerabup	4	0.010	0.070	0.028	✓	4	<0.002	0.004	<0.002	✓	4	7.40	7.53	7.48	✓	4	17.0	22.0	20.0	✓
North Dandalup	5	0.015	0.030	0.022	✓	5	<0.002	0.003	<0.002	✓	5	7.16	8.41	8.01	✓	5	1.0	2.6	1.5	✓
Pinjarra	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.15	8.20	8.18	✓	2	0.4	0.8	0.6	✓
South Perth/Kewdale	3	0.010	0.045	0.022	✓	3	<0.002	0.006	0.003	✓	3	7.76	8.02	7.92	✓	3	12.0	18.0	15.7	✓
Tamworth Hill	2	0.006	0.015	0.011	✓	2	<0.002	<0.002	<0.002	✓	2	7.88	8.04	7.96	✓	2	0.6	0.8	0.7	✓
Thomsons Lake	4	<0.003	0.006	<0.003	✓	4	<0.002	0.010	0.005	✓	4	7.70	8.30	7.91	✓	4	1.0	5.9	4.5	✓
Two Rocks	4	<0.003	0.004	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.40	7.71	7.56	✓	4	12.0	13.0	12.3	✓
Wanneroo	5	0.006	0.025	0.012	✓	5	<0.002	0.005	<0.002	✓	5	7.17	7.81	7.45	✓	5	17.0	20.0	18.4	✓
West Yokine	5	0.015	0.140	0.041	✓	5	<0.002	0.016	0.004	✓	5	7.82	8.22	8.00	✓	5	17.0	19.0	18.0	✓
Whitfords	2	0.008	0.010	0.009	✓	2	0.003	0.003	0.003	✓	2	7.42	7.75	7.59	✓	2	17.0	18.0	17.5	✓
Yanchep	5	<0.003	0.015	0.005	✓	5	<0.002	<0.002	<0.002	✓	5	7.45	7.68	7.57	✓	5	16.0	19.0	17.0	✓

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Table 5 Aesthetic (Non-health related) Variables

Perth 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	
Armadale/Kelmscott	2	89.0	99.0	94.0	✓	2	374	401	388	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Bold Park	2	23.0	70.0	46.5	✓	2	141	329	235	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Buckland Hill	5	84.0	145.0	122.8	✓	5	344	547	464	✓	5	<1	<1	<1	✓	5	0.1	0.3	0.2	✓
Dwellingup	2	33.0	36.0	34.5	✓	2	133	152	143	✓	2	<1	1	<1	✓	2	0.5	0.5	0.5	✓
Foothills	2	105.0	120.0	112.5	✓	2	458	519	489	✓	2	<1	<1	<1	✓	2	0.1	0.4	0.3	✓
Greenmount	5	75.0	120.0	101.8	✓	5	331	540	459	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓
Greenmount/Darlington	5	56.0	96.0	79.8	✓	5	273	437	359	✓	5	<1	<1	<1	✓	5	0.1	0.5	0.3	✓
Hamilton Hill	2	78.0	120.0	99.0	✓	2	357	485	421	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Hills Direct	2	31.0	35.0	33.0	✓	2	171	171	171	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Lexia	2	47.0	68.0	57.5	✓	2	376	396	386	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Mandurah	4	22.0	25.0	23.0	✓	4	139	154	147	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Melville	4	45.0	92.0	74.8	✓	4	210	357	299	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Mirrabooka	4	88.0	130.0	114.5	✓	4	390	544	497	✓	4	<1	<1	<1	✓	4	0.1	0.3	0.2	✓
Mt. Eliza	4	115.0	140.0	122.5	✓	4	416	501	453	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Mt. Hawthorn	4	47.0	130.0	104.3	✓	4	227	536	452	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Mt. Yokine	4	115.0	140.0	126.3	✓	4	509	551	533	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Mundaring	2	105.0	105.0	105.0	✓	2	426	434	430	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Neerabup	4	66.0	85.0	73.0	✓	4	395	503	472	✓	4	<1	<1	<1	✓	4	0.1	0.5	0.3	✓
North Dandalup	5	21.0	37.0	27.8	✓	5	130	163	150	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Pinjarra	2	20.0	35.0	27.5	✓	2	144	177	161	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
South Perth/Kewdale	3	86.0	120.0	108.7	✓	3	381	531	478	✓	3	<1	<1	<1	✓	3	0.1	0.2	0.1	✓
Tamworth Hill	2	22.0	26.0	24.0	✓	2	143	152	148	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Thomsons Lake	4	14.0	135.0	101.0	✓	4	133	519	409	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.1	✓
Two Rocks	4	55.0	58.0	56.8	✓	4	505	533	520	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Wanneroo	5	68.0	96.0	83.4	✓	5	383	476	421	✓	5	<1	<1	<1	✓	5	0.1	0.2	0.2	✓
West Yokine	5	115.0	125.0	119.0	✓	5	507	559	538	✓	5	<1	<1	<1	✓	5	0.2	0.5	0.3	✓
Whitfords	2	79.0	94.0	86.5	✓	2	397	409	403	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Yanchep	5	57.0	77.0	64.8	✓	5	490	560	523	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓