

Drinking Water Quality Annual Report Data 01/07/2010 to 30/06/2011

Table 7 Aesthetic (Non-health related) Variables

Mid West Locality	Aluminium				Hardness				Iron				Manganese							
	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	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Badgingarra	2	<0.008	<0.008	<0.008	✓	2	45	45	45	✓	2	0.006	0.006	0.006	✓	2	0.002	0.003	0.003	✓
Bindoon /Chittering	5	<0.008	0.008	<0.008	✓	5	50	65	54	✓	5	0.080	0.180	0.106	✓	5	0.003	0.005	0.004	✓
Bolgart	5	<0.008	0.030	<0.008	✓	5	120	130	124	✓	5	0.010	0.090	0.033	✓	5	<0.002	0.004	<0.002	✓
Calingiri	4	<0.008	<0.008	<0.008	✓	4	120	200	155	✓	4	0.020	0.030	0.026	✓	4	<0.002	<0.002	<0.002	✓
Carnamah	2	<0.008	<0.008	<0.008	✓	2	130	130	130	✓	2	0.020	0.025	0.023	✓	2	<0.002	<0.002	<0.002	✓
Carnarvon	2	<0.008	<0.008	<0.008	✓	2	140	140	140	✓	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Cervantes	4	<0.008	<0.008	<0.008	✓	4	320	330	325	(1)	4	<0.003	0.004	<0.003	✓	4	<0.002	<0.002	<0.002	✓
Coomberdale	2	0.030	0.035	0.033	✓	2	70	80	75	✓	2	0.160	0.200	0.180	✓	2	0.003	0.004	0.004	✓
Coorow	2	<0.008	<0.008	<0.008	✓	2	130	130	130	✓	2	0.015	0.020	0.018	✓	2	<0.002	<0.002	<0.002	✓
Coral Bay	2	<0.008	<0.008	<0.008	✓	2	65	70	68	✓	2	0.015	0.020	0.018	✓	2	0.004	0.005	0.005	✓
Cue	5	<0.008	<0.008	<0.008	✓	5	180	190	186	✓	5	<0.003	0.004	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Dandaragan	4	<0.008	<0.008	<0.008	✓	4	90	95	93	✓	4	0.060	0.160	0.090	✓	4	0.003	0.009	0.005	✓
Denham	4	0.008	0.016	0.013	✓	4	55	65	60	✓	4	0.050	0.120	0.070	✓	4	<0.002	<0.002	<0.002	✓
Dongara/Denison	4	<0.008	<0.008	<0.008	✓	4	110	110	110	✓	4	0.004	0.120	0.046	✓	4	<0.002	0.006	0.003	✓
Eneabba	5	<0.008	<0.008	<0.008	✓	5	95	100	97	✓	5	0.015	0.040	0.027	✓	5	<0.002	<0.002	<0.002	✓
Exmouth	4	<0.008	<0.008	<0.008	✓	4	330	340	338	(1)	4	<0.003	0.010	<0.003	✓	4	<0.002	<0.002	<0.002	✓
Gascoyne Junction	15	<0.008	<0.008	<0.008	✓	15	45	400	108	✓	15	<0.003	0.006	<0.003	✓	15	<0.002	0.005	<0.002	✓
Geraldton	4	<0.008	0.010	<0.008	✓	4	100	120	110	✓	4	0.010	0.180	0.055	✓	4	<0.002	0.010	0.003	✓
Gingin	5	<0.008	<0.008	<0.008	✓	5	30	30	30	✓	5	0.070	0.360	0.144	✓	5	<0.002	0.006	<0.002	✓
Greenhead	2	<0.008	<0.008	<0.008	✓	2	90	100	95	✓	2	0.010	0.010	0.010	✓	2	<0.002	<0.002	<0.002	✓
Guilderton	4	<0.008	0.010	<0.008	✓	4	270	310	290	(1)	4	<0.003	<0.003	<0.003	✓	4	<0.002	<0.002	<0.002	✓
Horrocks	5	<0.008	<0.008	<0.008	✓	5	130	140	132	✓	5	0.060	0.160	0.104	✓	5	0.004	0.009	0.007	✓
Jurien Bay	5	<0.008	0.008	<0.008	✓	5	300	370	324	(1)	5	<0.003	<0.003	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Kalbarri	2	<0.008	<0.008	<0.008	✓	2	60	60	60	✓	2	0.006	0.045	0.026	✓	2	<0.002	<0.002	<0.002	✓
Lancelin	2	<0.008	<0.008	<0.008	✓	2	270	280	275	(1)	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Latham	2	<0.008	<0.008	<0.008	✓	2	75	90	83	✓	2	0.025	0.030	0.028	✓	2	<0.002	<0.002	<0.002	✓
Ledge Point	2	<0.008	<0.008	<0.008	✓	2	240	260	250	(1)	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Leeman	2	<0.008	<0.008	<0.008	✓	2	100	100	100	✓	2	0.015	0.020	0.018	✓	2	<0.002	<0.002	<0.002	✓
Meekatharra	5	<0.008	<0.008	<0.008	✓	5	260	290	274	(1)	5	<0.003	0.004	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Mingenew	2	<0.008	<0.008	<0.008	✓	2	75	80	78	✓	2	0.020	0.030	0.025	✓	2	<0.002	<0.002	<0.002	✓
Moora	5	<0.008	<0.008	<0.008	✓	5	60	65	61	✓	5	0.040	0.340	0.142	✓	5	<0.002	0.030	0.008	✓
Morawa	2	<0.008	<0.008	<0.008	✓	2	70	70	70	✓	2	0.010	0.015	0.013	✓	2	<0.002	0.006	0.003	✓
Mt Magnet	2	<0.008	<0.008	<0.008	✓	2	260	270	265	(1)	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Mullewa	4	<0.008	0.012	<0.008	✓	4	110	130	125	✓	4	0.025	0.050	0.034	✓	4	<0.002	<0.002	<0.002	✓
Nabawa	2	0.012	0.016	0.014	✓	2	110	130	120	✓	2	0.020	0.025	0.023	✓	2	<0.002	<0.002	<0.002	✓
New Norcia	5	<0.008	<0.008	<0.008	✓	5	130	160	146	✓	5	0.025	0.035	0.028	✓	5	<0.002	<0.002	<0.002	✓
Nilgern (Ocean Farms)	2	<0.008	<0.008	<0.008	✓	2	260	270	265	(1)	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Northampton	5	0.010	0.018	0.013	✓	5	120	120	120	✓	5	0.010	0.025	0.018	✓	5	<0.002	0.003	<0.002	✓
Perenjori	2	<0.008	<0.008	<0.008	✓	2	65	80	73	✓	2	0.020	0.025	0.023	✓	2	<0.002	<0.002	<0.002	✓
Piawaning	4	<0.008	<0.008	<0.008	✓	4	100	160	135	✓	4	0.040	0.180	0.130	✓	4	<0.002	<0.002	<0.002	✓
Port Kalbarri	2	<0.008	<0.008	<0.008	✓	2	110	110	110	✓	2	0.010	0.010	0.010	✓	2	<0.002	<0.002	<0.002	✓
Sandstone	5	<0.008	<0.008	<0.008	✓	5	320	370	344	(1)	5	<0.003	<0.003	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Seabird	2	<0.008	<0.008	<0.008	✓	2	95	95	95	✓	2	0.015	0.025	0.020	✓	2	<0.002	<0.002	<0.002	✓
Seaview Park	2	<0.008	0.008	<0.008	✓	2	200	200	200	✓	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Sovereign Hills	2	<0.008	<0.008	<0.008	✓	2	240	240	240	(1)	2	<0.003	0.006	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Three Springs	2	<0.008	0.008	<0.008	✓	2	80	90	85	✓	2	0.030	0.080	0.055	✓	2	0.003	0.007	0.005	✓
Watheroo	4	<0.008	0.012	<0.008	✓	4	230	250	240	(1)	4	0.015	0.780	0.246	✓	4	<0.002	0.075	0.024	✓
Wiluna	2	<0.008	<0.008	<0.008	✓	2	150	220	185	✓	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓
Woodridge	3	0.060	0.065	0.062	✓	3	60	65	62	✓	3	0.015	0.020	0.018	✓	3	0.008	0.010	0.009	✓
Yalgoo	5	<0.008	0.010	<0.008	✓	5	95	340	287	(1)	5	<0.003	<0.003	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Yerecoin	2	<0.008	<0.008	<0.008	✓	2	90	140	115	✓	2	0.020	0.060	0.040	✓	2	<0.002	<0.002	<0.002	✓
Yuna	4	0.010	0.020	0.014	✓	4	100	110	108	✓	4	0.025	0.070	0.045	✓	4	<0.002	0.004	<0.002	✓

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

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Table 8 Aesthetic (Non-health related) Variables

Mid West Locality	pH				TDS				True Colour				Turbidity							
	Samples Taken	Value (pH units)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (TCU)			Guideline Met	Samples Taken	Value (NTU)			Guideline Met
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Badgingarra	2	7.33	7.85	7.59	✓	2	645	673	659	(3)	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Bindoon /Chittering	5	7.16	7.71	7.43	✓	5	431	484	456	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓
Bolgart	5	7.05	7.29	7.16	✓	5	591	621	608	(3)	5	<1	<1	<1	✓	5	0.3	0.9	0.6	✓
Calingiri	4	6.74	7.01	6.86	✓	4	618	1021	779	(3)	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Carnamah	2	6.83	6.89	6.86	✓	2	813	814	814	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Carnarvon	2	7.83	7.99	7.91	✓	2	465	470	468	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Cervantes	4	7.73	7.87	7.80	✓	4	942	981	965	(3)	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Coomberdale	2	8.89	9.20	9.05	(1)	2	516	531	524	(3)	2	<1	1	<1	✓	2	0.3	0.3	0.3	✓
Coorow	2	7.06	7.22	7.14	✓	2	809	826	818	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Coral Bay	2	7.77	7.82	7.80	✓	2	188	194	191	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Cue	5	7.77	7.91	7.85	✓	5	811	840	830	(3)	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Dandaragan	4	6.98	7.40	7.21	✓	4	643	751	690	(3)	4	<1	<1	<1	✓	4	0.2	0.6	0.4	✓
Denham	4	7.26	7.68	7.51	✓	4	415	504	463	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Dongara/Denison	4	7.09	7.46	7.32	✓	4	834	861	852	(3)	4	<1	<1	<1	✓	4	<0.1	0.5	0.2	✓
Eneabba	5	7.08	7.38	7.30	✓	5	645	678	656	(3)	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Exmouth	4	7.57	7.73	7.66	✓	4	809	844	829	(3)	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Gascoyne Junction	15	7.05	7.54	7.25	✓	15	151	1508	413	✓	15	<1	<1	<1	✓	15	<0.1	<0.1	<0.1	✓
Geraldton	4	7.20	7.41	7.31	✓	4	787	862	833	(3)	4	<1	<1	<1	✓	4	<0.1	1.2	0.5	✓
Gingin	5	6.96	7.95	7.66	✓	5	247	345	305	✓	5	<1	5	<1	✓	5	<0.1	0.3	<0.1	✓
Greenhead	2	7.41	7.85	7.63	✓	2	563	574	569	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Guilderton	4	7.89	8.03	7.97	✓	4	772	906	858	(3)	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Horrocks	5	6.45	6.81	6.61	✓	5	1168	1215	1187	(3)	5	<1	<1	<1	✓	5	0.2	0.4	0.3	✓
Jurien Bay	5	7.61	7.84	7.69	✓	5	766	1082	895	(3)	5	<1	<1	<1	✓	5	<0.1	0.1	<0.1	✓
Kalbarri	6	6.51	6.76	6.63	✓	2	389	392	391	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Lancelin	2	7.89	7.95	7.92	✓	2	675	709	692	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Latham	2	8.63	8.99	8.81	(2)	2	645	646	646	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Ledge Point	2	7.91	7.93	7.92	✓	2	694	695	695	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Leeman	2	7.52	7.56	7.54	✓	2	580	581	581	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Meekatharra	5	8.11	8.20	8.16	✓	5	1028	1074	1055	(3)	5	<1	<1	<1	✓	5	<0.1	<0.1	<0.1	✓
Mingenew	2	7.17	7.24	7.21	✓	2	673	682	678	(3)	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Moora	5	7.16	7.37	7.30	✓	5	484	513	494	✓	5	<1	<1	<1	✓	5	<0.1	0.5	0.2	✓
Morawa	2	7.21	7.42	7.32	✓	2	630	637	634	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Mt Magnet	2	7.97	7.97	7.97	✓	2	931	933	932	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Mullewa	4	7.85	8.13	8.05	✓	4	813	888	852	(3)	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Nabawa	2	7.85	7.93	7.89	✓	2	813	862	838	(3)	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
New Norcia	5	6.54	7.06	6.76	✓	5	700	794	749	(3)	5	<1	<1	<1	✓	5	1.2	1.7	1.5	✓
Nilgern (Ocean Farms)	2	7.39	7.67	7.53	✓	2	705	715	710	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Northampton	5	8.00	8.45	8.17	✓	5	810	853	833	(3)	5	<1	<1	<1	✓	5	0.1	0.2	0.2	✓
Perenjori	2	7.52	7.54	7.53	✓	2	630	656	643	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Piawaning	4	7.35	7.53	7.47	✓	4	316	585	507	(3)	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Port Kalbarri	6	7.49	7.68	7.56	✓	2	790	798	794	(3)	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Sandstone	5	7.31	7.51	7.40	✓	5	994	1068	1027	(3)	5	<1	<1	<1	✓	5	<0.1	<0.1	<0.1	✓
Seabird	2	7.89	8.04	7.97	✓	2	546	547	547	(3)	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Seaview Park	2	7.98	7.99	7.99	✓	2	505	514	510	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Sovereign Hills	2	8.00	8.08	8.04	✓	2	659	660	660	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Three Springs	2	7.30	7.43	7.37	✓	2	706	732	719	(3)	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Watheroo	4	7.38	7.70	7.55	✓	4	493	550	530	(3)	4	<1	3	2	✓	4	<0.1	2.1	0.7	✓
Wiluna	2	8.06	8.26	8.16	✓	2	512	610	561	(3)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Woodridge	3	7.74	8.06	7.92	✓	3	486	511	496	✓	3	<1	<1	<1	✓	3	0.1	0.2	0.1	✓
Yalgoo	5	7.68	7.92	7.83	✓	5	402	1069	914	(3)	5	<1	<1	<1	✓	5	<0.1	<0.1	<0.1	✓
Yerecoin	2	7.23	7.79	7.51	✓	2	389	575	482	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Yuna	4	7.80	8.04	7.88	✓	4	804	844	821	(3)	4	<1	<1	<1	✓	4	0.2	0.6	0.4	✓

(1) High pH is characteristic of the source supplying this locality. (2) Elevated pH is caused by leaching of calcium carbonate from the protective cement lining of the pipes after long water transit times. (3) Elevated TDS is characteristic of the source supplying this locality.