

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

Table 28 Aesthetic (Non-health related) Variables

North West Region	Aesthetic (Non-health related) Variables																			
Locality	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	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	
Broome	2	81	83	82	(1)	2	<0.008	<0.008	<0.008	✓	2	110	135	123	✓	2	60	77	69	✓
Burrup*	3	110	150	133	(1)	3	<0.008	<0.008	<0.008	✓	3	44	55	51	✓	3	130	160	150	✓
Camballin	2	56	60	58	(1)	2	<0.008	<0.008	<0.008	✓	2	39	41	40	✓	2	44	46	45	✓
Cape Lambert TWS	2	150	180	165	(1)	2	<0.008	<0.008	<0.008	✓	2	65	75	70	✓	2	160	210	185	✓
Derby	2	160	160	160	(1)	2	<0.008	0.010	<0.008	✓	2	90	95	93	✓	2	11	14	13	✓
Fitzroy Crossing	2	170	180	175	(1)	2	<0.008	<0.008	<0.008	✓	2	35	43	39	✓	2	160	160	160	✓
Halls Creek	2	320	360	340	(1)	2	<0.008	<0.008	<0.008	✓	2	150	205	178	✓	2	280	320	300	(2)
Hedland	2	170	190	180	(1)	2	<0.008	<0.008	<0.008	✓	2	125	150	138	✓	2	200	220	210	(2)
Karratha	2	140	210	175	(1)	2	<0.008	<0.008	<0.008	✓	2	60	105	83	✓	2	160	260	210	(3)
Kununurra	4	190	220	203	(1)	4	<0.008	<0.008	<0.008	✓	4	15	18	16	✓	4	150	170	163	✓
Marble Bar	2	400	420	410	(1)	2	<0.008	<0.008	<0.008	✓	2	220	225	223	✓	2	350	370	360	(2)
Newman	4	150	160	155	(1)	4	<0.008	<0.008	<0.008	✓	4	60	75	66	✓	4	140	150	148	✓
Nullagine	4	120	210	158	(1)	4	<0.008	<0.008	<0.008	✓	4	85	95	89	✓	4	190	210	198	✓
Onslow TWS	2	170	190	180	(1)	2	<0.008	<0.008	<0.008	✓	2	80	90	85	✓	2	190	200	195	✓
Point Samson	2	150	210	180	(1)	2	<0.008	<0.008	<0.008	✓	2	60	90	75	✓	2	160	240	200	(3)
Roebourne	2	130	170	150	(1)	2	<0.008	<0.008	<0.008	✓	2	55	60	58	✓	2	150	160	155	✓
Wickham	2	150	280	215	(1)	2	<0.008	0.010	<0.008	✓	2	65	140	103	✓	2	160	360	260	(3)
Wyndham	3	43	46	44	(1)	3	0.010	0.014	0.013	✓	3	22	32	27	✓	3	28	42	36	✓

*Burrup LNG and Burrup Supply have been combined into one locality - Burrup (1) No guideline value available as per ADWG 2011. (2) Elevated hardness is characteristic of the source supplying this locality. (3) Elevated hardness is a characteristic of the source (Millstream) supplying this locality for part of the year.

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Table 29 Aesthetic (Non-health related) Variables

North West Region	Aesthetic (Non-health related) Variables																			
Locality	Iron					Manganese					pH					Silicon				
	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	
Broome	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.95	8.43	8.19	✓	2	85	90	88	(1)
Burrup*	3	<0.003	<0.003	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	8.25	8.37	8.32	✓	3	50	55	52	✓
Camballin	2	0.025	0.035	0.030	✓	2	<0.002	<0.002	<0.002	✓	2	6.99	7.21	7.10	✓	2	23	23	23	✓
Cape Lambert TWS	2	0.004	0.004	0.004	✓	2	<0.002	<0.002	<0.002	✓	2	7.74	8.16	7.95	✓	2	20	50	35	✓
Derby	2	0.010	0.010	0.010	✓	2	<0.002	<0.002	<0.002	✓	2	7.69	7.70	7.70	✓	2	15	16	16	✓
Fitzroy Crossing	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.40	7.56	7.48	✓	2	21	21	21	✓
Halls Creek	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.86	7.95	7.91	✓	2	49	55	52	✓
Hedland	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.81	8.06	7.94	✓	2	50	55	53	✓
Karratha	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.01	8.04	8.03	✓	2	27	50	39	✓
Kununurra	4	<0.003	0.004	<0.003	✓	4	0.004	0.035	0.015	✓	4	7.64	7.88	7.77	✓	4	50	55	51	✓
Marble Bar	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.51	7.53	7.52	✓	2	37	38	38	✓
Newman	4	<0.003	0.004	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.03	7.25	7.19	✓	4	17	20	18	✓
Nullagine	4	<0.003	0.015	0.005	✓	4	<0.002	<0.002	<0.002	✓	4	7.08	7.42	7.24	✓	4	30	34	32	✓
Onslow TWS	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.10	8.30	8.20	✓	2	75	75	75	✓
Point Samson	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.14	8.19	8.17	✓	2	24	50	37	✓
Roebourne	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.75	7.88	7.82	✓	2	31	33	32	✓
Wickham	2	<0.003	0.015	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	8.06	8.20	8.13	✓	2	23	60	42	✓
Wyndham	3	<0.003	0.004	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	7.85	7.99	7.93	✓	3	6	9	7	✓

*Burrup LNG and Burrup Supply have been combined into one locality - Burrup (1) Elevated silica is characteristic of the source supplying this locality.

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Table 30 Aesthetic (Non-health related) Variables

North 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	
Broome	2	87	100	94	✓	2	438	482	460	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Burrup*	3	26	34	31	✓	3	328	402	376	✓	3	<1	<1	<1	✓	3	<0.1	<0.1	<0.1	✓
Camballin	2	37	38	38	✓	2	228	238	233	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Cape Lambert TWS	2	46	61	54	✓	2	437	500	469	✓	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Derby	2	115	125	120	✓	2	441	447	444	✓	2	<1	<1	<1	✓	2	0.1	0.4	0.3	✓
Fitzroy Crossing	2	34	39	37	✓	2	381	383	382	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Halls Creek	2	135	170	153	(1)	2	910	986	948	(2)	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Hedland	2	86	88	87	✓	2	567	628	598	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Karratha	2	51	57	54	✓	2	403	609	506	✓	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Kununurra	4	23	31	26	✓	4	383	433	400	✓	4	<1	<1	<1	✓	4	<0.1	0.5	0.2	✓
Marble Bar	2	190	190	190	(1)	2	1148	1171	1160	(2)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Newman	4	51	67	59	✓	4	398	449	421	✓	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Nullagine	4	52	75	61	✓	4	435	581	500	✓	4	<1	<1	<1	✓	4	<0.1	0.4	0.2	✓
Onslow TWS	2	42	50	46	✓	2	512	512	512	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Point Samson	2	50	57	54	✓	2	424	570	497	✓	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Roebourne	2	42	55	49	✓	2	414	416	415	✓	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Wickham	2	57	77	67	✓	2	432	809	621	(2)	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Wyndham	3	19	21	20	✓	3	123	132	127	✓	3	<1	<1	<1	✓	3	<0.1	0.2	0.1	✓

*Burrup LNG and Burrup Supply have been combined into one locality - Burrup (1) Elevated sodium is characteristic of the source supplying this locality. (2) Elevated TDS is a characteristic of the source supplying this locality.