

SWARTLAND MUNICIPALITY: COMPLIANCE SAMPLE RESULTS OF FINAL EFFLUENT FOR 2019-2020

	WWTW	Year												No of Samples	No of Samples Complying	%Compliance	Requirement
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20				
pH	Malmesbury	7.21	7.45	7.55	7.31	7.14	7.68	7.38	7.48	7.09	7.77	7.70	7.71	12	7	58.3%	5.5 - 7.5 Licence Discharge
	Darling	7.21	7.45	7.55	7.31	7.14	7.68	7.38	7.48	7.09	7.77	7.70	7.71	12	12	100.0%	5.5 - 9.5 Licence Irrigation
	Moorreesburg	7.86	7.73	8.18	8.20	7.65	7.98	7.66	7.95	7.84	8.17	7.57	7.87	12	12	100.0%	5.5 - 9.5 General Limit
	Koringberg	7.46	7.84	7.58	7.66	7.53	7.49	7.47	7.70	7.17	7.48	7.06	7.48	12	12	100.0%	5.5 - 9.5 General Limit
	Chatsworth	7.22	7.24	7.00	7.03	6.32	7.20	7.17	7.19	7.13	7.56	6.92	7.10	12	12	100.0%	5.5 - 9.5 General Limit
	Kalbaskraal	7.24	6.91	6.93	7.43	6.78	7.29	7.12	6.99	7.15	7.14	6.90	7.00	12	12	100.0%	6 - 9 for irrigation up to 0.5 Mld
	Riebeeck Valley	7.46	7.44	7.18	7.48	7.49	7.49	7.20	7.40	7.08	7.39	6.86	7.61	12	12	100.0%	5.5 - 9.5 General Limit
	COD - filtered (mg/l)	Malmesbury	25.90	31.60	32.10	22.20	35.00	23.90	14.80	34.40	44.60	34.50	24.50	18.70	12	12	100.0%
Darling		39.70	35.90	40.10	33.30	57.30	25.10	38.10	44.60	45.00	35.20	33.70	49.40	12	12	100.0%	75 Licence Irrigation
Moorreesburg		78.40	168.00	139.00	70.20	92.60	80.80	57.80	62.80	80.60	51.90	87.10	91.30	12	4	33.3%	75 General Limit
Koringberg		858.00	761.00	764.00	721.00	844.00	943.00	880.00	1130.00	679.00	741.00	901.00	243.00	12	0	0.0%	75 General Limit
Chatsworth		174.00	120.00	148.00	231.00	392.00	136.00	103.00	145.00	125.00	101.00	165.00	155.00	12	0	0.0%	75 General Limit
Kalbaskraal		411.00	450.00	554.00	684.00	721.00	771.00	509.00	709.00	691.00	554.00	612.00	444.00	12	0	0.0%	400 for irrigation up to 0.5 Mld
Riebeeck Valley		15.80	29.60	38.90	31.30	45.30	38.10	49.00	47.00	48.00	26.10	42.20	28.00	12	12	100.0%	75 General Limit
TSS (mg/l)		Malmesbury	4	5	5	6	6	6	5	4	4	4	6	4	12	4	33.3%
	Darling	4	27	8	15	22	42	13	20	11	4	15	24	12	10	83.3%	25 General Limit
	Moorreesburg	30	147	40	23	35	22	15	28	14	51	49	12	5	41.7%	25 General Limit	
	Koringberg	478	743	517	1034	731	875	1340	309	515	20	700	513	12	1	8.3%	25 General Limit
	Chatsworth	60	40	25	224	132	51	25	31	26	8	80	70	12	3	25.0%	25 General Limit
	Kalbaskraal	345	516	484	646	480	687	421	444	371	23	708	592	12	1	8.3%	NA for irrigation up to 0.5 Mld
	Riebeeck Valley	5	7	7	12	12	11	15	16	16	5	12	5	12	12	100.0%	25 General Limit
	Ammonia (mg/l)	Malmesbury	0.10	0.13	0.29	0.42	1.60	0.14	0.43	0.44	3.30	49.60	2.90	0.10	12	11	91.7%
Darling		0.15	0.61	1.10	0.65	0.10	0.10	0.27	17.00	0.10	0.10	0.10	2.10	12	11	91.7%	6 Licence Irrigation
Moorreesburg		39.60	99.80	92.00	10.10	28.50	15.90	14.60	15.80	11.30	31.20	25.40	40.00	12	0	0.0%	6 General Limit
Koringberg		0.10	155.00	165.00	107.00	123.00	88.10	86.40	94.90	138.00	129.00	133.00	108.00	12	1	8.3%	6 General Limit
Chatsworth		80.80	71.00	74.50	47.90	26.20	23.00	34.50	46.00	76.90	74.60	82.40	12	0	0.0%	6 General Limit	
Kalbaskraal		74.20	74.90	68.40	40.20	70.10	42.30	27.80	36.80	34.60	48.70	58.90	74.90	12	0	0.0%	NA for irrigation up to 0.5 Mld
Riebeeck Valley		0.48	0.17	0.52	0.52	0.52	0.10	3.10	1.50	1.70	0.56	0.28	0.73	12	12	100.0%	6 General Limit
Faecal Coliforms (org/100ml)		Malmesbury	2	1	2	0	7	0	0	18	9	345	0	0	12	12	100.0%
	Darling	0	17	12	10	6	0	344	2419	2419	2419	156	9	12	9	75.0%	1 000 General Limit
	Moorreesburg	2419	2419	2419	2419	2419	0	2419	6	2419	2419	82	28	12	4	33.3%	1 000 General Limit
	Koringberg	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	12	0	0.0%	1 000 General Limit
	Chatsworth	344	2419	2419	2419	2419	547	2419	2419	2419	2419	372	88	12	4	33.3%	1 000 General Limit
	Kalbaskraal	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419	12	12	100.0%	<100 000 for irrigation up to 0.5 Mld
	Riebeeck Valley	3	613	387	2419	2419	345	345	866	214	2419	119	20	12	9	75.0%	1 000 General Limit
	Conductivity	Malmesbury	117.00	123.00	114.00	124.00	109.00	112.00	129.00	120.00	123.00	156.00	131.00	109.00	12	11	91.7%
Darling		117.00	123.00	114.00	124.00	109.00	112.00	129.00	120.00	123.00	156.00	131.00	109.00	12	11	91.7%	75 mS/m above intake Licence Discharge
Moorreesburg		108.00	105.00	15.00	114.00	75.00	108.00	103.00	118.00	107.00	98.00	103.00	109.00	12	12	100.0%	Max 150 General Limit
Koringberg		168.00	220.00	105.00	183.00	165.00	140.00	134.00	122.00	119.00	131.00	129.00	121.00	12	8	66.7%	Max 150 General Limit
Chatsworth		245.00	220.00	270.00	240.00	220.00	200.00	206.00	214.00	195.00	162.00	204.00	202.00	12	0	0.0%	Max 150 General Limit
Kalbaskraal		141.00	141.00	144.00	149.00	133.00	137.00	155.00	159.00	161.00	137.00	147.00	136.00	12	9	75.0%	Max 150 General Limit
Riebeeck Valley		155.00	147.00	148.00	186.00	173.00	168.00	208.00	234.00	210.00	210.00	166.00	151.00	12	8	66.7%	200 for irrigation up to 0.5 Mld
Nitrate Nitrogen		Malmesbury	12.10	10.10	7.30	12.80	15.40	8.70	12.10	15.40	0.20	5.60	5.70	8.50	12	6	50.0%
	Darling	4.60	1.20	0.81	0.73	0.95	4.70	8.10	0.20	0.60	5.60	5.20	6.50	12	6	50.0%	10 Licence Irrigation
	Moorreesburg	0.49	0.50	0.20	17.50	16.70	12.30	0.56	1.70	2.40	16.10	11.00	27.20	12	8	66.7%	15 General Limit
	Koringberg	80.00	0.20	0.34	0.20	0.64	1.00	0.20	0.20	0.20	0.37	0.20	0.20	12	11	91.7%	15 General Limit
	Chatsworth	0.20	0.77	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.29	0.20	0.20	12	12	100.0%	15 General Limit
	Kalbaskraal	0.20	0.20	0.20	0.20	1.10	0.37	0.20	0.20	0.20	0.26	0.20	0.20	12	12	100.0%	NA for irrigation up to 0.5 Mld
	Riebeeck Valley	4.00	5.90	3.10	1.70	5.20	3.60	1.70	13.10	2.40	4.60	3.20	4.60	12	12	100.0%	15 General Limit
	Nitrite Nitrogen	Malmesbury	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	12	12	100.0%
Darling		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	12	12	100.0%	0.20
Moorreesburg		0.20	0.20	0.20	1.10	0.20	0.24	0.20	0.20	0.21	0.20	0.20	0.50	12	11	91.7%	0.20
Koringberg		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	12	12	100.0%	0.20
Chatsworth		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.82	0.20	0.20	12	12	100.0%	0.20
Kalbaskraal		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	12	12	100.0%	0.20
Riebeeck Valley		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	12	12	100.0%	0.20
Ortho Phosphate		Malmesbury	0.10	0.10	0.26	0.16	0.10	0.10	0.45	2.30	6.30	0.29	0.28	4.00	12	11	91.7%
	Darling	0.10	0.10	0.26	0.16	0.10	0.10	0.45	2.30	6.30	0.29	0.28	4.00	12	11	91.7%	5 Licence Irrigation
	Moorreesburg	0.47	0.95	0.32	0.39	4.60	1.30	0.20	12.20	0.24	0.29	0.22	3.30	12	11	91.7%	10 General Limit
	Koringberg	7.30	13.60	12.00	7.90	12.90	9.90	15.00	12.80	14.70	11.70	14.50	13.00	12	3	25.0%	10 General Limit
	Chatsworth	6.60	20.30	20.20	16.00	14.40	10.60	14.60	14.80	14.50	15.30	13.80	15.30	12	1	8.3%	10 General Limit
	Kalbaskraal	9.30	8.30	13.70	14.10	8.50	13.50	17.70	16.20	18.00	17.70	16.50	13.80	12	3	25.0%	10 General Limit
	Riebeeck Valley	6.80	7.40	9.80	13.10	9.10	8.20	32.00	30.30	30.90	34.90	20.30	14.70	12	5	41.7%	NA for irrigation up to 0.5 Mld
	Riebeeck Valley	4.40	3.40	1.90	0.76	2.80	3.10	6.90	2.50	16.80	2.10	11.50	4.10	12	10	83.3%	10 General Limit