

**SWARTLAND MUNICIPALITY: COMPLIANCE SAMPLE RESULTS OF FINAL EFFLUENT**

	WWTW	Month												No of Sam	No of Sam	% Complia	Requirement
		Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12				
<b>pH</b>	Malmesbury	6.60	6.90	7.00	7.10	7.20	6.90	7.10	7.10	7.60	7.00	6.90	6.90	12	12.00	100.0%	5.5 - 9.5 General Limit
	Darling	7.26	7.16	7.43	7.40	6.90	7.53	6.90	6.90	8.00	7.11	7.00	7.00	12	12	100.0%	5.5 - 9.5 General Limit
	Moorreesburg	6.20	7.00	7.00	7.70	7.50	7.80	8.00	7.70	7.50	7.20	7.00	7.10	12	12	100.0%	5.5 - 9.5 General Limit
	PPC	7.57	6.88	7.20	3.55	7.68	6.79	6.17	6.66	6.49	5.49	5.50	5.05	12	9	75.0%	5.5 - 9.5 General Limit
	Chatsworth	7.25	7.44	7.67	7.30	7.05	7.46	7.01	6.81	6.35	7.84	7.23	6.58	12	12	100.0%	6 - 9 for irrigation up to 0.5 Ml/d
	Kalbaskraal	7.10		7.73	7.24	6.42	7.20	7.41	6.48	6.99	6.34	7.19	7.25	11	11	100.0%	6 - 9 for irrigation up to 0.5 Ml/d
	Koringberg	7.69	8.08	7.14	7.38	7.29	7.14	7.15	8.28	7.11	7.68	7.83	7.60	12	12	100.0%	6 - 9 for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	7.79	7.80	7.80	7.18	6.81	7.45	7.26	6.49	7.12	6.98	7.17	7.15	12	12	100.0%	6 - 9 for irrigation up to 0.5 Ml/d
	Riebeek Wes	7.85	7.94	7.60	7.07	6.70	7.62	7.21	6.54	6.77	7.23	7.00	7.83	12	12	100.0%	6 - 9 for irrigation up to 0.5 Ml/d
<b>COD (mg/l)</b>	Malmesbury	60.5	59.5	60.2	40.5	64.8	38.1	29.1	48.8	50.4	55.6	36.4	37	12	12	100.0%	75 General Limit
	Darling	210	149	117	86.8	164	223	15.8	48.8	35.9	52.8	30	23.8	12	6	50.0%	75 General Limit
	Moorreesburg	28.2	66.8	70.6	55.6	33.4	54.4	45.6	88.8	52.4	43.5	28.8	65	12	11	91.7%	75 General Limit
	PPC	24.2	130	38.7	12	158	161	48	309	53.2	47.2	42	23.4	12	8	66.7%	75 General Limit
	Chatsworth	137	83.3	133	117	115	99.2	174	369	424	180	124	242	12	11	91.7%	400 for irrigation up to 0.5 Ml/d
	Kalbaskraal	161		225	244	288	408	579	563	374	802	324	283	11	7	63.6%	400 for irrigation up to 0.5 Ml/d
	Koringberg	508	403	474	431	308	399	745	487	169	594	564	631	12	3	25.0%	400 for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	110	98.4	98.4	158	112	187	271	425	279	300	158	448	12	10	83.3%	400 for irrigation up to 0.5 Ml/d
	Riebeek Wes	191	122	130	78	137	164	217	345	204	172	218	153	12	12	100.0%	400 for irrigation up to 0.5 Ml/d
<b>TSS (mg/l)</b>	Malmesbury	31	6	16	21	32	13	49	11	22	7	64	6	12	8	66.7%	25 General Limit
	Darling	35	30	77	6	67	47	7	<4	8	11	<4	<4	12	7	58.3%	25 General Limit
	Moorreesburg	5	8	5	<4	8	<4	17	20	<4	<4	<4	<4	12	12	100.0%	25 General Limit
	PPC	21	136	19	5	109	100	208	44	16	10	101	14	12	6	50.0%	25 General Limit
	Chatsworth	12	5	14	15	8	<4	13	20	46	11	38	48	12	9	75.0%	N/A for irrigation up to 0.5 Ml/d
	Kalbaskraal	28		35	20	22	15	49	70	6	76	85	52	11	4	36.4%	N/A for irrigation up to 0.5 Ml/d
	Koringberg	126	299	104	275	33	13	224	39	146	67	148	85	12	1	8.3%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	13	22	22	15	19	198	76	53	66	17	47	9	12	7	58.3%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Wes	22	37	65	4	18	13	64	47	9	38	50	35	12	5	41.7%	N/A for irrigation up to 0.5 Ml/d
<b>Ammonia (mg/l)</b>	Malmesbury	3.2	17.1	9.6	<0.15	4.5	7.7	11.4	4.4	2.6	2.4	0.92	9.4	12	7	58.3%	6 General Limit
	Darling	27.8	50.3	33.4	20.4	21.3	36	2.2	1.1	2.9	3	1	1.1	12	6	50.0%	6 General Limit
	Moorreesburg	4.1	22.8	18	7.2	5.1	12.1	33	19.5	9.4	9.4	11.1	28	12	2	16.7%	6 General Limit
	PPC	0.84	1.6	1.7	1.5	16.5	8	4.3	2.9	19.3	1	3	2.6	12	9	75.0%	6 General Limit
	Chatsworth	33.8	67.7	26.4	76.3	17.8	31.8	30.8	6.3	22.4	14.1	18	59.7	12	0	0.0%	N/A for irrigation up to 0.5 Ml/d
	Kalbaskraal	32		53.5	26.8	60.3	34.7	57.3	15.6	45.3	45.8	59.1	50.7	11	0	0.0%	N/A for irrigation up to 0.5 Ml/d
	Koringberg	50	85.5	20.2	92.5	52.3	72.7	53	42.3	58	45.5	73.9	57	12	0	0.0%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	32.2	41	41	37	62.8	27	57.4	38	43.3	59.5	73.8	60.7	12	0	0.0%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Wes	31.4	51.7	32.8	49	56.7	65.2	39.4	49	48	49.7	61.2	57	12	0	0.0%	N/A for irrigation up to 0.5 Ml/d
<b>Faecal Coliforms (org/100ml)</b>	Malmesbury	1001	1001	0	0	0	0	0	2420	0	8	727	12	9	75.0%	1 000 General Limit	
	Darling	1001	1001	1001	1001	200	210	2	0	0	0	613	0	12	8	66.7%	1 000 General Limit
	Moorreesburg	0	0	167	0	0	0	1	0	1	0	9	236	12	12	100.0%	1 000 General Limit
	PPC	0	0	3200	0	0	530	1	1	0	0	261	1733	12	10	83.3%	1 000 General Limit
	Chatsworth	1001	1001	1001	0	0	435	19	0	20	4	278	1001	12	12	100.0%	< 100 000 for irrigation up to 0.5 Ml/d
	Kalbaskraal	1001		1001	1001	1001	0	1001	2419	50	1001	165	1001	11	11	100.0%	< 100 000 for irrigation up to 0.5 Ml/d
	Koringberg	0	12900	0	0	1001	1001	0	0	1001	1001	0	0	12	12	100.0%	< 100 000 for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	1001	1001	1001	1001	700	1001	1001	2419	1001	1001	1001	1001	12	12	100.0%	< 100 000 for irrigation up to 0.5 Ml/d
	Riebeek Wes	1001	0	1001	1001	0	236	0	0	0	1001	1001	1001	12	12	100.0%	< 100 000 for irrigation up to 0.5 Ml/d
<b>Conductivity</b>	Malmesbury	165	163	148	141	135	125	103	109	107	111	126	131	12	10	83.3%	Max 150 General Limit
	Darling	112	130	105	101	100	105	86.1	98.6	89.9	83.8	68.4	66.9	12	12	100.0%	Max 150 General Limit
	Moorreesburg	154	224	301	275	186	165	178	149	129	113	111	152	12	4	33.3%	Max 150 General Limit
	PPC	81.5	64.2	72	57.9	54.4	161	54.2	63.5	58.3	56.4	56.3	38.3	12	11	91.7%	Max 150 General Limit
	Chatsworth	161	157	145	140	124	151	173	251	184	179	267	136	12	10	83.3%	200 for irrigation up to 0.5 Ml/d
	Kalbaskraal	118		126	139	148	147	164	258	237	153	151	122	11	9	81.8%	200 for irrigation up to 0.5 Ml/d
	Koringberg	219	267	317	427	381	361	413	374	318	263	185	245	12	1	8.3%	200 for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	135	138	138	154	143	123	132	105	118	127	124	129	12	12	100.0%	200 for irrigation up to 0.5 Ml/d
	Riebeek Wes	124	128	118	135	142	134	150	140	148	142	127	122	12	12	100.0%	200 for irrigation up to 0.5 Ml/d
<b>Nitrate Nitrogen</b>	Malmesbury	18.3	2	0.2	8.9	3	2.2	0.8	0.8	6.5	1.3	10.2	3.3	12	11	91.7%	15 General Limit
	Darling	6	4	5.2	3	1.2	3	2.8	1.1	1.5	2.2	0.84	2.2	12	12	100.0%	15 General Limit
	Moorreesburg	12.1	10.8	3.3	11.4	15.6	4.3	3.4	1.9	12.7	9.3	2	1.4	12	11	91.7%	15 General Limit
	PPC	15.4	12.6	13.5	16.8	0.98	13.7	17.8	24	7.8	17.7	19.4	14.3	12	6	50.0%	15 General Limit
	Chatsworth	34.2	3	28.4	3.6	5.1	2.2	1.8	0.8	6.9	6.8	0.2	2.8	12	10	83.3%	N/A for irrigation up to 0.5 Ml/d
	Kalbaskraal	3.1		3.9	3.1	9	8	2.2	2.1	0.8	10.2	3.4	3.9	11	11	100.0%	N/A for irrigation up to 0.5 Ml/d
	Koringberg	0.98	4.1	3	27.5	4.1	0.2	1.5	1	0.4	11.2	4.2	7	12	11	91.7%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Kasteel	2	2.2	2.2	7.5	3.4	2	7.5	1.6	3	1.3	4.1	13	12	12	100.0%	N/A for irrigation up to 0.5 Ml/d
	Riebeek Wes	1.9	3	5	1.7	4	6.2	4.1	2.3	1.5	3.5	1.8	1.5	12	12	100.0%	N/A for irrigation up to 0.5 Ml/d
<b>Nitrite Nitrogen</b>	Malmesbury	0.66	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.2	12	11	91.7%	10 General Limit
	Darling	0.08	0.08	0.08	0.16	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	Moorreesburg	0.72	0.36	0.68	0.16	0.16	0.08	0.16	0.08	0.32	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	PPC	0.08	0.66	0.3	0.08	0.32	0.34	0.24	1.7	0.36	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	Chatsworth	0.08	0.08	2.6	0.36	0.8	0.56	0.08	0.08	0.08	1.1	0.08	0.08	12	12	100.0%	10 General Limit
	Kalbaskraal	0.08		0.1	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	Koringberg	0.52	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	Riebeek Kasteel	0.08	0.08	0.08	0.08	0.08	0.62	0.08	0.08	0.08	0.08	0.08	0.08	12	12	100.0%	10 General Limit
	Riebeek Wes	0.08	0.08	0.08													