

21-Oct-23		Requirement		Ashton		Bonnievale		McGregor		Montagu		Robertson		Total Samples		Total Samples Complying	
Treated Water		Measurement															
Inflow ML						57											
pH (at 25°C)		≥5.00 - ≤9.70		6,88		7,28		6,74		6,98		6,49		5,00		5,00	
Conductivity (at 25°C)		≤170		54,9		66,3		11,8		<4		<4		5,00		5,00	
Turbidity (NTU)		≤1.0 Operational		12		2,8		0,64		0,61		2,4					
		≤5.0 -Aeshetic												5,00		5,00	
Colour (mg/L as Pt)		≤15		<4		7		5		<4		<4		5,00		5,00	
Aluminium (µg/L as Al)		≤300		402		287		116		<40		222		5,00		4,00	
Iron (µg/L as Fe)		≤300 Aesthetic ≤2000 Chronic Health		124		137		<0,20		<20		<20		5,00		5,00	
Free Chlorine (mg/L)		>0.0 - ≤5		1,4		2,5		3,3		1,8		0,25		5,00		5,00	
E.Coli (cnt/100ml)		Not Detected		<1		<1		<1		<1		<1		5,00		5,00	
Total Coliform Bacteria		≤10		<1		<1		<1		<1		<1		5,00		5,00	
														10,00		10,00	

Parameters	Unit	GENERAL LIMITS	SPECIAL LIMITS	21-Oct-23				Requirement Measurement (Irrigation 500m³)	Mc-Gregor	Total Samples	Total Samples Complying
				Ashton	Bonnievale	Montagu	Robertson				
Average daily flows (ML)				3,48	1,8	3,5	4,2				
pH	at 25°C	5.5 - 9.5	5.5 - 7.5	7,60	7,72	7,7	7,3	6.00 - 9.00	7,1	5	5
Conductivity	mS/m	<70.0 - <150	50mS/m above intake	241	248	178	237	<200	143	5	1
COD Unfiltered	mg/L			59,5	143	67,5	107			0	0
COD Filtered	mg/L	<75.0 After Algae Removal	30	40,8	98,0	57,1	88,2	<400	111	5	2
Ammonia as N	mg/L	6.0 max	2.0	37,6	71,9	16,9	36,8	N/A		4	0
Nitrate as N	mg/L	15. 0 max	1.5	<0,20	<0,20	<0,20	<0,20	N/A		4	4
Nitrite as N	mg/L	15.0 max		<0,20	0,2	<0,20	<0,20	N/A		0	0
Free Chlorine	mg/L	<0.25	0	0,09	1,8	0,38	0,2	N/A		0	0
TSS	mg/L	25	10	18	64	40	56	N/A		4	1
Ortho-P	mg/L	10	1 med 2,5max	5,50	3,3	6,7	3,9				0
Soap, oil or grease	mg/L	3	0								0
Faecal Coliforms	Org/100 ml	1000 max	1000	>2419	>2419	>2419	<1	<100 000	3 500	5	2
E Coli	Org/100 ml	1000,0		>2419	>2419	>2419	<1	N/A		5	1
										37,00	16,00
									100		
											43,2

The plants are failing because of the following which affect the nitrification:	
1. No Back up generator and load shedding causes poor nitrification. 2.wasting is inadequate.	
3.The residual Cl2 is above the limits but it is affected by TSS hence the microbiological is failing.	