

**MERRIWA SEWAGE TREATMENT WORKS - LICENCE TESTING**  
**OUTLET OF FINAL TERTIARY POND -EPA LICENCE TESTING**  
**Monitoring Point 1**

Licence No: 4661

Date Sampled			1/Feb/23	3/May/23	1/Aug/23	21/Nov/23							
Effective Month			Feb/23	May/23	Aug/23	Nov/23							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5	20		39.00	25.00	27.00	20.00	4	20.00	27.75	39.00	26	35.4	
Enterococci			6600.00	67.00	36.00	910.00	4	36.00	1903.25	6600.00	488.5	4893	
Faecal Coliforms			2700.00	2000.00	1900.00	3000.00	4	1900.00	2400.00	3000.00	2350	2910	
Nitrogen (Ammonia)			0.68	2.41	7.35	0.84	4	0.68	2.82	7.35	1.625	5.868	
Nitrogen (Total)			7.98	8.11	17.55	5.80	4	5.80	9.86	17.55	8.045	14.718	
Oil and Grease	10		2.00	2.00	2.00	2.00	4	2.00	2.00	2.00	2	2	
Total Phosphorus			6.32	2.56	1.67	2.50	4	1.67	3.26	6.32	2.53	5.192	
Total Suspended Solids	30		55.00	32.00	26.00	41.00	4	26.00	38.50	55.00	36.5	50.8	

■ Indicates results exceed the licence limits ■ Indicates result was < the number given

**MERRIWA RIVER - UPSTREAM -EPA LICENCE TESTING**  
**Monitoring Point 3**

Date Sampled			1/Feb/23	3/May/23	1/Aug/23	21/Nov/23							
Effective Month			Feb/23	May/23	Aug/23	Nov/23							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5			2.00	2.00	3.00	6.00	4	2.00	3.25	6.00	2.5	5.1	
Nitrogen (Ammonia)			0.09	0.11	0.09	0.50	4	0.09	0.20	0.50	0.1	0.383	
Nitrogen (Total)			0.39	0.32	0.19	1.00	4	0.19	0.48	1.00	0.355	0.817	
Oil and Grease			2.00	2.00	2.00	2.00	4	2.00	2.00	2.00	2	2	
Total Phosphorus			0.35	0.37	0.25	0.20	4	0.20	0.29	0.37	0.3	0.364	
Total Suspended Solids			29.00	22.00	11.00	49.00	4	11.00	27.75	49.00	25.5	43	

■ Indicates result was < the number given

**MERRIWA RIVER - DOWNSTREAM -EPA LICENCE TESTING**  
**Monitoring Point 4**

Date Sampled			1/Feb/23	3/May/23	1/Aug/23	21/Nov/23							
Effective Month			Feb/23	May/23	Aug/23	Nov/23							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5			2.00	2.00	2.00	3.00	4	2.00	2.25	3.00	2	2.7	
Nitrogen (Ammonia)			0.07	0.05	0.05	0.05	4	0.05	0.06	0.07	0.05	0.064	
Nitrogen (Total)			0.37	0.25	0.25	0.40	4	0.25	0.32	0.40	0.31	0.391	
Oil and Grease			2.00	2.00	2.00	2.00	4	2.00	2.00	2.00	2	2	
Total Phosphorus			0.26	0.35	0.17	0.21	4	0.17	0.25	0.35	0.235	0.323	
Total Suspended Solids			13.00	12.00	15.00	25.00	4	12.00	16.25	25.00	14	22	

■ Indicates result was < the number given