

FORBES SEWAGE TREATMENT WORKS - EPA LICENCE TESTING RESULTS

Licensee: Forbes Shire Council

Licence No. 4809

Address: 2 Court Street Forbes NSW 2871

Monitoring Point 5 - Discharge from Sewer Plant

Site Address: Forbes STP Newell Hwy Forbes NSW 2871

Pollutant concentrations of water being discharged from Sewer Treatment Plant

DP752962

Date Sampled	11/Oct/21	8/Nov/21	6/Dec/21	17/Jan/22	14/Feb/22	14/Mar/22	9/Apr/22	9/May/22	6/Jun/22	Jul/22	Aug/22	Sep/22								
Effective Month	Oct/21	Nov/21	Dec/21	Jan/22	Feb/22	Mar/22	Apr/22	May/22	Jun/22											
100 percentile limits	6.8 - 8.5	6.8 - 8.5																		
90 percentile limit	6.8 - 8.5																			
Required Monitoring Frequency - Monthly																				
Parameter	Licence Limit	PQL	100 percentile limits	90 percentile limit	Measured Values													Min	Average	Max
pH	6.8 - 8.5	6.8 - 8.5	7.40	7.30	7.40	7.57	7.30	8.00	7.90	7.90	7.80					9	7.30	7.62	8.00	
Total Nitro	15	10	4.00	3.30	4.50	5.00	5.70	4.00	3.70	4.00	3.90					9	3.30	4.23	5.70	
Total Phos	0.5		0.12	0.20	0.13	0.05	0.05	0.03	0.81	0.29	0.33					9	0.03	0.22	0.81	
Facael Col	600	200		1.00	1.00	1.00	108.00	19.00	1.00	17.00	91.00					8	1.00	29.88	108.00	
BOD5	15	10	4.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00					9	2.00	2.33	4.00	
Non Filtera	20	15	11.00	16.00	6.00	4.00	4.00	4.00	5.70	2.70	3.00					9	2.70	6.27	16.00	
Ammonia-	5	2	0.39	0.64	1.30	1.90	1.80	2.00	0.83	0.97	0.98					9	0.39	1.20	2.00	
Oil and Gr	15	10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					9	2.00	2.00	2.00	
Chlorophyll-a ug/L			2.00	2.00	2.00	2.00	2.00	2.00			3.00					7	2.00	2.14	3.00	

Indicates result was < the number given

Monitoring Point 7 - Gum Swamp Water Quality near Birdhide

Pollutant concentrations of water in Gum Swamp

Date Sampled	11/Oct/21	8/Nov/21	6/Dec/21	17/Jan/22	14/Feb/22	14/Mar/22	9/Apr/22	9/May/22	6/Jun/22	Jul/22	Aug/22	Sep/22							
Effective Month	Oct/21	Nov/21	Dec/21	Jan/22	Feb/22	Mar/22	Apr/22	May/22	Jun/22										
Parameters Monitored																			
pH	7.70	8.50	7.90	8.21	7.81	8.00	8.10	8.40	8.60							9	7.70	8.14	8.60
Total Nitrogen mg/l	6.00	3.10	3.90	2.30	3.80	2.00	3.70	3.80	1.90							9	1.90	3.39	6.00
Total P mg/l	0.39	0.43	0.38	0.24	0.07	0.03	2.10	0.39	0.19							9	0.03	0.47	2.10
Facael Coliforms CFU/100mL		12,997.00	187	548.00	225.00	365.00	1,700.00	980.00	34.00							8	34.00	2129.50	12997.00
BOD5	4.00	10.00	13.00	6.00	8.00	16.00	8.00	7.00	6.00							9	4.00	8.67	16.00
Non Filterable Residue mg/l	14.00	58.00	42.00	28.00	57.00	170.00	56.00	81.00	30.00							9	14.00	59.56	170.00
Ammonia mg/l	3.90	0.01	0.56	0.01	0.61	1.00	0.42	0.44	0.07							9	0.01	0.78	3.90
Oil and Grease mg/l	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00							9	2.00	2.00	2.00

Indicates result was < the number given Indicates result was > the number given

Monitoring Point 9 - Lachlan River Downstream of sewer outfall location

Pollutant contrations of Lachlan River Water Downstream of Sewer Outfall

Date Sampled	11/Oct/21	8/Nov/21	6/Dec/21	17/Jan/22	14/Feb/22	14/Mar/22	9/Apr/22	9/May/22	6/Jun/22	Jul/22	Aug/22	Sep/22					
Effective Month	Oct/21	Nov/21	Dec/21	Jan/22	Feb/22	Mar/22	Apr/22	May/22	Jun/22	Jul/22	Aug/22	Sep/22					
Discharge during month y/n														Min	Average	Max	
Parameters Monitored														Min	Average	Max	
pH	7.60	7.80	7.40	7.47	7.53	8.00	7.40	7.80	7.80					9	7.40	7.64	8.00
Total Nitrogen mg/L	1.10	1.00	1.30	1.10	0.96	1.00	0.94	1.10	1.40					9	0.94	1.10	1.40
Total Phosphorus mg/L	0.06	0.09	0.14	0.09	0.07	0.03	0.68	0.06	0.16					9	0.03	0.15	0.68
Facael Coliforms CFU/100mL		770.00	26.00	115.00	50.00	41.00	490.00	91.00	140.00					8	26.00	215.38	770.00
BOD5	2.00	2.00	3.00	2.00	2.00	2.00	2.00	7.00	25.00					9	2.00	5.22	25.00
Suspended Solids mg/L	52.00	39.00	50.00	50.00	39.00	89.00	60.00	32.00	98.00					9	32.00	56.56	98.00
Ammonia mg/l	0.01	0.02	0.04	0.04	0.02	0.03	0.04	0.02	0.02					9	0.01	0.03	0.04
Oil and Grease mg/l	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					9	2.00	2.00	2.00

Indicates result was < the number given

Monitoring Point 10 - Lachlan River Upstream of sewer outfall location

Pollutant contrations of Lachlan River Water Upstream of Sewer Outfall

Date Sampled	11/Oct/21	8/22/21	6/Dec/21	17/Jan/22	14/Feb/22	14/Mar/22	9/Apr/22	9/May/22	6/Jun/22	Jul/22	Aug/22	Sep/22					
Effective Month	Oct/21	Nov/21	Dec/21	Jan/22	Feb/22	Mar/22	Apr/22	May/22	Jun/22	Jul/22	Aug/22	Sep/22					
Discharge during month y/n														Min	Average	Max	
Parameters Monitored														Min	Average	Max	
pH	7.60	7.70	7.5	7.24	7.55	8.00	7.30	7.70	0.70					9	0.70	6.81	8.00
Total Nitrogen mg/L	1.20	1.00	1.40	1.20	1.10	1.00	1.10	1.10	1.40					9	1.00	1.17	1.40
Total Phosphorus mg/L	0.07	0.08	0.13	0.09	0.09	0.09	0.42	0.08	0.14					9	0.07	0.13	0.42
Facael Coliforms CFU/100mL		488.00	15	83.00	206.00	110.00	410.00	110.00	110.00					8	15.00	191.50	488.00
BOD5	2.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00					9	2.00	2.33	3.00
Suspended Solids mg/L	62.00	25.00	61	50.00	31.00	140.00	68.00	35.00	90.00					9	25.00	62.44	140.00
Ammonia mg/l	0.02	0.01	0.03	0.01	0.02	0.00	0.04	0.03	0.03					9	0.00	0.02	0.04
Oil and Grease mg/l	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					9	2.00	2.00	2.00

Indicates result was < the number given