

SEWER TREATMENT PLANTS - Environmental Compliance

01 April 2020 -31 March 2021

Gulgong Wastewater Treatment Plant
107 Spring Creek Road, Gulgong NSW 2852
Environment Protection Licence: 5808 <http://www.epa.nsw.gov.au/prpoeoapp/>

Monitoring Point 3 Pollutant		pH	EC	TDS (calculated)	TSS	Chlorine total residual	Total Nitrogen	Total Phosphorus	Chlorophyll a	Oil & Grease	BOD	Faecal Coliforms	Report Generated	Comments
Limits		6.5-9.5			50	1	40	10		10	20	1000		
Units			µs/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/m3	mg/L	mg/L	CFU/100mL		
Date sampled	Date results received													
6/04/2020	14/05/2020	10.0	1150	770	3	<0.2	1.2	1.14	4	<2	3	11	3/08/2020	Algae growth due to warm weather
6/05/2020	14/05/2020	9.2	1100	737	7	<0.2	1.5	2.66	7	<2	2	14	3/08/2020	
3/06/2020	10/06/2020	8.8	1050	720	6	<0.2	1.6	3.61	8	<2	2	<2	3/08/2020	
7/07/2020	14/07/2020	8.4	1080	724	<1	<0.2	1.2	4.10	3	<2	2	1	3/08/2020	
11/08/2020	19/08/2020	8.9	1020	683	4	<0.2	1.1	3.57	2	<1	2	1	20/08/2020	
24/09/2020	30/09/2020	9.4	998	669	<1	<0.2	1.5	2.87	<1	<2	2	6	1/10/2020	
22/10/2020	29/10/2020	9.9	993	665	3	<0.2	1.1	1.35	11	<2	<2	47	29/10/2020	Algae growth due to warm weather
23/11/2020	30/11/2020	8.6	1050	704	1	<0.2	1.6	3.89	<1	<2	<2	38	3/12/2020	
16/12/2020	29/12/2020	8.7	1070	717	6	<0.2	2.6	4.28	6	<2	<2	78	7/01/2021	
13/01/2021	25/01/2021	8.4	1060	710	2	<0.2	2.2	4.71	<1	<2	3	35	27/01/2021	
10/02/2021	17/02/2021	9.6	1050	704	2	<0.2	1.2	2.27	1	<2	5	15	18/01/2021	Algae growth due to warm weather
16/03/2021	25/03/2021	8.8	1050	704	3	<0.2	1.3	3.29	1	<2	2	310	30/03/2021	
No of samples taken		12	12	12	12	12	12	12	9	12	12	12		
EPA required frequency (samples per year)		Monthly (12)			Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)		
Minimum		8.4	993	665	0.5	0.1	1.1	1.14	1	0.5	1.0	1		
Average		9.1	1056	709	3.2	0.1	1.5	3.15	5	1.0	2.2	46		
Maximum		10	1150	770	7	0.1	2.6	4.71	11	1	5	310		
Samples within limits (%)		75			100	100	100	100		100	100	100		

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Report generated 10/08/2020										
Monitoring Point 4		Site no and depth	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Sodium	Salinity	pH (CaCl2)	Total Nitrogen	Total Phosphorus	Sodium Adsorption Ratio (SAR)
Pollutant			mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	
Units										
Date sampled	Date results received									
24/07/2020	6/08/2020	Site 1-0-20cm	1730	508	105	93	6.2	2160	501	3.49
24/07/2020	6/08/2020	Site 1-20-40cm	2090	1300	480	429	6.8	580	149	14.9
24/07/2020	6/08/2020	Site 1-40-70cm	1890	2650	600	1560	7.4	500	193	6.17
24/07/2020	6/08/2020	Site 1-70-100cm	3290	2540	632	1250	7.9	550	178	8.53
24/07/2020	6/08/2020	Site 2-0-20cm	1060	242	41	126	7.4	920	173	0.81
24/07/2020	6/08/2020	Site 2-20-40cm	741	437	270	142	7.1	440	125	5.51
24/07/2020	6/08/2020	Site 2-40-70cm	740	1460	650	665	6.7	380	116	28.0
24/07/2020	6/08/2020	Site 2-70-100cm	584	1240	574	595	6.4	250	125	28.3
24/07/2020	6/08/2020	Site 3-0-20cm	1480	520	<1	164	6.0	2080	300	0.51
24/07/2020	6/08/2020	Site 3-20-40cm	2910	644	92	264	7.5	480	125	1.84
24/07/2020	6/08/2020	Site 3-40-70cm	1280	1150	364	299	6.8	370	118	15.1
24/07/2020	6/08/2020	Site 3-70-100cm	1060	1240	404	320	6.1	350	96	20.2
24/07/2020	6/08/2020	Site 4-0-20cm	511	229	40	78	6.4	510	123	2.24
24/07/2020	6/08/2020	Site 4-20-40cm	794	614	245	114	6.6	500	146	5.06
24/07/2020	6/08/2020	Site 4-40-70cm	960	1630	743	348	6.6	470	160	21.4
24/07/2020	6/08/2020	Site 4-70-100cm	781	1580	725	465	6.7	360	94	28.6
No of samples taken			16	16	15	16	16	16	16	16
EPA required frequency (samples per year)			Annual (1)	Annual (1)	Annual (1)	Annual (1)	Annual (1)	Annual (1)	Annual (1)	Annual (1)

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Monitoring Point 1		Min	Max	Average	Month within Limits (%)	No of reading taken	Number of reading required	Comments		
Frequency: daily										
Limits										
Units	Report Generated	KL	KL	KL	KL					
Month										
April	3/08/2020	257	483	341	100	30	30			
May	3/08/2020	277	659	363	100	31	31			
June	3/08/2020	341	419	419	100	30	30			
July	3/08/2020	342	841	414	100	31	31			
August	2/09/2020	339	465	379	100	31	31			
September	1/10/2020	307	640	372	100	30	30			
October	2/11/2020	210	723	354	100	31	31			
November	3/12/2020	268	411	318	100	30	30			
December	7/01/2021	285	965	413	100	31	31			
January	4/02/2021	261	1712	383	100	31	31			
February	2/03/2021	290	973	382	100	28	28			
March	1/04/2021	295	4350	623	100	31	31			