

SEWER TREATMENT PLANTS - Environmental Compliance

01 April 2022 -31 March 2023

Kandos Sewage treatment Works
Rylstone Road Kandos NSW 2848Environment Protection Licence: 1737 <http://www.epa.nsw.gov.au/prpocoapp/>

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		6.5-8.5			50	0.5	35	10		10	30				
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														
12/04/2022	19/04/2022	8.6	1500	1005	18	<0.2	9.9	1.63	12	<2	5	280	29/04/2022	Algae in pond Combination of algae growth due to sunshine in previous days and residue of algae die off with cold snap on 6th and 7th May.	
10/05/2022	17/05/2022	9.4	1540	1032	55	<0.2	14.6	1.87	27	2	11	1900	17/05/2022		
9/06/2022	17/06/2022	7.7	1830	1226	8	<0.2	15.9	1.74	<1	<2	11	3300	17/06/2022		
12/07/2022	19/07/2022	7.8	1430	958	3	<0.2	13.0	2.07	<1	<2	6	230	20/07/2022		
10/08/2022	17/08/2022	7.8	1670	1119	2	<0.2	13.3	1.96	1	<2	5	190	18/08/2022		
12/09/2022	19/09/2022	7.9	1950	1307	7	<0.2	14.4	1.96	5	3	<2	<1	20/09/2022		
19/10/2022	26/10/2022	7.8	1510	1012	7	<0.2	11.4	2.00	<1	<2	<2	<1	27/10/2022		
16/11/2022	24/11/2022	8.0	1600	1072	11	<0.2	8.1	2.43	3	<2	4	4400	25/11/2022		
13/12/2022	20/12/2022	8.0	1780	1193	10	<0.2	12.8	4.59	8	<2	3	260	21/12/2022		Sample taken one day earlier than the required minimum 4 weeks interval due to Christmas shutdown of Laboratory
11/01/2023	18/01/2023	9.3	1530	1025	64	<0.2	10.1	1.79	205	3	14	1800	19/01/2023		Elevated amount of algae (elevated chlorophylla) in lagoon causing elevated TSS and pH. Effluent leaving the STP to enter lagoon had a pH of 7.5 on 11/01/2023.
9/02/2023	16/02/2023	9.7	1410	945	56	<0.2	11.3	1.18	74	<2	19	140	17/02/2023	Elevated amount of algae (elevated chlorophylla) in lagoon causing elevated TSS and pH. Effluent leaving the STP to enter lagoon had a pH of 7.6 on 09/02/2023.	
15/03/2023	22/03/2023	9.5	1330	891	45	<0.2	9.6	1.09	23	<2	18	4600	23/03/2023	Elevated amount of algae (elevated chlorophylla) in lagoon causing elevated pH. Effluent leaving the STP to enter lagoon had a pH of 7.4 on 15/03/2023.	
No of samples taken		12	12	12	12	12	12	12	9	12	12	12			
Samples/year required by EPA		12			12	12	12	12		12	12	12			
Minimum		7.7	1330	891	2.0	0.1	8.1	1.09	1	1.0	1.0	140.0			
Average		8.5	1590	1065	23.8	0.1	12.0	2.03	40	1.4	8.2	1710			
Maximum		9.7	1950	1306.5	64	0.2	15.9	4.59	205	3	19	4600			
Samples within limits (%)		58			75	100	100	100		100	100				

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Monitoring Point 1		Min	Max	Average	Month within Limits (%)	No of reading taken	Number of reading required	Comments
Frequency: daily		1800 KL/Day	1800 KL/Day	1800 KL/Day	1800 KL/Day			
Limits		1800 KL/Day	1800 KL/Day	1800 KL/Day	1800 KL/Day			
Units	Report Generated	KL	KL	KL	KL			
Month	Report Generated	KL	KL	KL	KL			
April	2/05/2022	191	1382	332	100	30	30	
May	1/06/2022	259	1183	419	100	31	31	
June	6/07/2022	158	545	206	100	30	30	
July	2/08/2022	156	3940	643	0	30	31	Essential Energy power cut from 8.00am to 4.00pm on 22/07. 3 days with flow > 1800KL
August	2/09/2022	103	1865	565	0	31	31	1 day with flow > 1800 kL
September	5/10/2022	445	2873	998	0	30	30	2 days with flow > 1800kL
October	1/11/2022	524	4868	1246	0	31	31	6 days with flow > 1800kL
November	2/11/2022	371	2764	760	0	30	30	2 days with flow > 1800kL
December	5/01/2023	333	429	366	100	31	31	
January	6/02/2023	312	681	354	100	31	31	
February	2/03/2023	295	412	321	100	28	28	
March	6/04/2023	277	619	328	100	31	31	