

SEWER TREATMENT PLANTS - Environmental Compliance													01 October 2020 -30 September 2021	
Mudgee Wastewater Treatment Plant 33 Blain Road, Caerleon, NSW, 2850 Environment Protection Licence: 5230 <a href="http://www.epa.nsw.gov.au/prpoeoapp/">http://www.epa.nsw.gov.au/prpoeoapp/</a>														
Monitoring Point 1		pH	EC	TDS (calculated)	TSS	Total Nitrogen	Total Phosphorus	Chlorophyll a	Oil & Grease	BOD	Faecal Coliforms	Report generated	Comments	
Pollutant					10	10	0.5		2	10	200			
Limit 90 percentile		6.5-8.5			30	15	1		10	15	600			
Limit 100 percentile														
Units			µs/cm	mg/L	mg/L	mg/L	mg/L	mg/m3	mg/L	mg/L	CFU/100mL			
Date sampled	Date results received													
22/10/2020	29/10/2020	7.4	1100	737	10	5.8	0.6	3	<2	4	10	29/10/2020	Catch balance tank retaining solids after storm event	
23/11/2020	30/11/2020	7.5	1100	737	50	9.3	2.43	<1	<2	5	340	3/12/2020	Issues identified with Catch Balance Tank clean out. Program of works has been devised in consultation with DPIE to address the phosphorus issue. It is anticipated that the work will take up to 6 months. EPA has been advised of the course of actions.	
16/12/2020	29/12/2020	7.3	1090	730	<1	6.5	0.15	<1	<2	<2	4	7/01/2021		
13/01/2021	25/01/2021	7.3	1110	744	2	7.4	0.14	<1	<2	2	10	27/01/2021		
10/02/2021	17/02/2021	7.4	1050	704	2	11	0.13	1	<2	<2	42	18/02/2021	See comments from November.	
18/03/2021	25/03/2021	7.4	1020	683	2	8.6	0.1	<1	<1	2	3	30/03/2021		
13/04/2021	21/04/2021	7.4	1110	744	2	8.4	0.09	<1	<2	<2	10	22/04/2021	Catch balance tank was successfully cleaned on 15th April 2021	
26/05/2021	2/06/2021	7.6	1050	704	12	8.2	0.58	11	<2	3	43000	3/06/2021	UV system failure after extended power outage (7h) in Mudgee. Reported to EPA (Ref number 2901)	
1/06/2021	7/06/2021	7.6	1040	697	2	9.7	0.2			<2	79	7/06/2021		
29/06/2021	6/07/2021	7.5	1070	717	3	7.9	0.47	1	<2	<2	4700	7/07/2021	UV system being investigated for potential fault. Faecal coliforms resampled on 5/07, 7/07, 13/07	
5/07/2021	9/07/2021										62	9/07/2021		
7/07/2021	12/07/2021										270			
13/07/2021	19/07/2021										12, 17, 31	20/07/2021	3 samples taken within 15 min	
20/07/2021	28/07/2021	7.6	1080	724	4	7.3	0.77	<1	<2	<2	12	29/07/2021		
23/08/2021	31/08/2021	7.6	1070	717	3	5.8	0.9	<1	<2	<2	78	1/09/2021	Inhouse monitoring showed an increase in phosphorus, Catch balance tank cleaned on 1/09/2021. Note: initial sampling done on 18/08, due to Covid case at Courier depot, samples had to be discarded and re-sampled.	
15/09/2021	22/09/2021	7.6	1060	710	4	4.3	0.75	1	<2	<2	34	22/09/2021	Internal investigations indicates problems with the alum delivery system. New parts are on order. Less than 25 days between August and September 21 due to the problems with August sample delivery.	
<b>No of samples taken</b>		13	13	13	13	13	13	5	12	13	18			
<b>EPA required frequency (samples per year)</b>		Monthly (12)			Monthly (12)	Monthly (12)	Monthly (12)		Monthly (12)	Monthly (12)	Monthly (12)			
<b>Minimum</b>		7.3	1020	683	0.5	4.3	0.09	1	0.5	1.0	3			
<b>Average</b>		7.5	1073	719	7.4	7.7	0.56	3	1.0	1.8	2707			
<b>Maximum</b>		7.6	1110	743.7	50	11.0	2.43	11	1	5	43000			
<b>Samples within 90 % limits (%)</b>					85	92	54		100	100	78			
<b>Samples within 100 % limits (%)</b>		100			92	100	92		100	100	89			

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Monitoring Point 2		Min	Max	Average	Samples within Limits (%)	No of reading taken	Number of reading required	Comments
Frequency: daily								
Limits		11500 KL/Day	11500 KL/Day	11500 KL/Day	11500 KL/Day			
Units		KL	KL	KL	KL			
Month	Report generated							
October	2/11/2020	2613	4690	3219	100	31	31	
November	3/12/2020	2609	4486	3105	100	30	30	
December	1/07/2021	2348	5733	3064	100	31	31	
January	4/02/2021	2089	4362	2809	100	31	31	
February	2/03/2021	2571	5783	3143	100	28	28	
March	1/04/2021	0	8964	3265	100	31	31	Mudgee Pipeline failure on 24th March
April	14/05/2021	2243	3635	2898	100	30	30	
May	1/06/2021	2256	5818	3144	100	31	31	
June	6/07/2021	2437	9406	4217	100	30	30	
July	3/08/2021	3218	6901	4555	100	31	31	
August	2/09/2021	2743	6238	3841	100	31	31	
September	6/10/2021	2441	5921	3494	100	30	30	

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Monitoring Point 3		Min	Max	No of days flowing	Samples within Limits	No of reading	Number of	Comments	
Frequency: daily									
Limits		11500 KL/Day	11500 KL/Day		11500 KL/Day				
Units		KL	KL		KL				
Month	Report generated								
October	2/11/2020	0	0	0	100	31	31		
November	3/12/2020	0	0	0	100	30	30		
December	1/07/2021	0	0	0	100	31	31		
January	4/02/2021	0	0	0	100	31	31		
February	3/03/2021	0	0	0	100	28	28		
March	1/04/2021	0	6531	3	100	31	31		
April	14/05/2021	0	0	0	100	30	30		
May	1/06/2021	0	0	0	100	31	31		
June	6/07/2021	0	2914	1	100	30	30		
July	3/08/2021	0	0	0	100	31	31		
August	2/09/2021	0	0	0	100	31	31		
September	6/10/2021	0	0	0	100	30	30		