

**Environmental Protection Licence EPL 1730**

**Yass Valley Council, PO Box 6, Yass, NSW 2582**

**Yass Sewage Treatment Plant, Faulder Avenue, YASS, NSW 2582**

Link to Public Register: <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>

**Yass Sewage Treatment Plant Effluent Quality Data since 2012**

EPA Sampling Point: 10 (refer site map for Location)			Monitoring Frequency : Monthly								Comment
Date Sampled	Date Results Obtained	Date Results Published	Pollutant								
			Ammonia (as N) mg/L	BOD <sub>5</sub> mg/L	Faecal Coliform CFU/100mL	pH	Suspended Solids mg/L	Total Oil & Grease mg/L	Total Phosphorus (as P) mg/L	Total Nitrogen (as N) mg/L	
			Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10	
12.01.12	29.05.12	29.05.12	0.9	3	6	7.5	6	<1	0.23	4.1	
08.02.12	29.05.12	29.05.12	0.6	5	78	7.6	7	<1	0.24	4.1	
07.03.12	29.05.12	29.05.12	0.5	6	9	7.5	15	<1	0.36	6.1	High inflow due to rain
05.04.12	29.05.12	29.05.12	1	10	17	7.6	3	<1	0.12	4.1	
09.05.12	29.05.12	29.05.12	0.5	<2	8	7.7	4	<1	0.14	5.1	
13.06.12	21.06.12	21.06.12	0.6	3	2	7.7	3	<1	0.13	3.6	
12.07.12	19.07.12	19.07.12	0.4	<2	1	7.6	3	<1	0.10	2.7	
15.08.12	23.08.12	23.08.12	0.2	3	1	7.7	6	<1	0.14	3.3	
04.09.12	11.09.12	11.09.12	0.3	4	<1	7.5	7	<1	0.20	3.7	
04.10.12	12.10.12	15.10.12	0.3	2	1	7.5	11	<1	0.14	3.5	
07.11.12	15.11.12	16.11.12	0.7	6	4	7.3	17	<1	0.28	3.7	
11.12.12	18.12.12	18.12.12	0.5	<2	<1	7.8	6	<1	0.08	3.9	
17.01.13	24.01.13	24.01.13	0.6	<2	110	7.7	10	<1	0.18	3.8	
14.02.13	21.02.13	21.02.13	0.4	<2	23	7.8	6	<1	0.08	2.8	
20.03.13	26.03.13	26.03.13	0.3	2	72	7.9	6	<1	0.09	5	
17.04.13	26.04.13	29.04.13	0.3	3	5	7.7	6	<1	0.10	4.6	
15.05.13	22.05.13	22.05.13	0.4	2	6	7.9	7	<1	0.2	4.6	
13.06.13	21.06.13	21.06.13	0.4	<2	2	7.5	8	<1	0.14	4	
11.07.13	17.07.13	17.07.13	0.3	3	<1	7.7	10	<1	0.18	4.3	
07.08.13	14.08.13	14.08.13	0.4	<2	2	7.5	8	<1	0.16	5.6	
11.09.13	18.09.13	18.09.13	0.4	<2	<1	7.6	8	<1	0.06	3.4	
10.10.13	21.10.13	22.10.13	0.4	3	2	7.6	9	<1	0.14	4.7	
13.11.13	22.11.13	25.11.13	0.4	5	61	7.2	11	<1	0.20	3.7	
18.12.13	02.01.14	06.01.14	0.5	3	14	7.56	8	<1	0.18	3.06	
22.01.14	03.02.14	03.02.14	0.5	3	340	7.9	8	<1	0.37	5.04	Some UV lamps defective, High summer temperature
27.02.14	06.03.14	06.03.14	0.3	<2	55	7.84	5	<1	0.11	3.92	

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Date Sampled	Date Results Obtained	Date Results Published	Pollutant								
			Ammonia (as N) mg/L	BOD <sub>5</sub> mg/L	Faecal Coliform CFU/100mL	pH	Suspended Solids mg/L	Total Oil & Grease mg/L	Total Phosphorus (as P) mg/L	Total Nitrogen (as N) mg/L	
			Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10	
19.03.14	27.03.14	27.03.14	0.5	<2	82	7.77	6	<1	0.07	4.15	
10.04.14	22.04.14	22.04.14	0.4	3	720	7.56	6	<1	0.1	4.37	Dead Turtle in UV Chamber
08.05.14	19.05.14	20.05.14	0.6	<2	620	7.49	7	<1	0.13	4.41	
26.06.14	07.07.14	08.07.14	0.5	<2	3680	7.43	6	<1	0.04	4.54	High Faecal Coliform results being investigated
17.07.14	24.07.14	24.07.14	0.3	<2	<2	7.39	8	<1	0.1	2.81	
07.08.14	15.08.14	18.08.14	0.4	<2	4	7.56	12	<1	0.25	4.44	
11.09.14	18.09.14	19.09.14	0.4	4	<1	7.33	12	<1	0.20	2.21	
16.10.14	28.10.14	29.10.14	0.7	3	<1	7.43	6	<1	0.08	2.90	
20.11.14	01.12.14	01.12.14	0.8	2	<2	7.62	6	<1	0.17	5.14	
11.12.14	22.12.14	23.12.14	0.7	<2	13	7.74	83	<1	0.08	3.4	
15.01.15	22.01.15	23.01.15	0.5	<2	10	7.72	5	<1	0.08	3.47	
12.02.15	20.02.15	23.02.15	0.8	<2	<2	7.53	8	<1	0.15	3.72	
12.03.15	24.03.15	24.03.15	0.4	3	68	7.68	9	<1	0.17	3.48	
16.04.15	28.04.15	28.04.15	0.3	<2	<2	7.67	6	<1	0.17	4.69	
14.05.15	26.05.15	26.05.15	0.5	<2	<1	7.98	9	<1	0.18	4.51	
25.06.15	08.07.15	10.07.15	0.9	4	2	7.82	12	<1	0.19	3.44	
16.07.15	24.07.15	27.07.15	0.5	<2	<1	7.54	13	<1	0.21	8.08	
13.08.15	24.08.15	25.08.15	0.6	<2	1	7.54	12	<1	0.22	8.89	
30.09.15	13.10.15	14.10.15	23.8	5	<2	7.86	14	<1	0.27	27.7	Cause of high ammonia and nitrogen being investigated
15.10.15	23.10.15	26.10.15	1.7	2	<2	7.79	12	<1	0.20	3.46	
11.11.15	18.11.15	20.11.15	0.9	3	<1	7.77	13	<1	0.29	2.83	
02.12.15	08.12.15	09.12.15	0.7	2	3	7.69	8	<1	0.18	3.09	
13.01.16	20.01.16	28.01.16	1.0	2	500	7.89	10	<1	0.29	3.44	Some UV lamps defective, High summer temperature
25.02.16	07.03.16	07.03.16	0.4	<2	166	8.22	10	<1	0.29	4.12	
17.03.16	29.03.16	30.03.16	0.4	<2	92	7.96	9	<1	0.44	4.30	

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Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10				
27.04.16	05.05.16	06.05.16	0.5	4	4	7.96	14	<1	0.49	5.69	
26.05.16	10.06.16	14.06.16	0.5	<2	<2	7.60	12	<1	0.15	5.21	
22.06.16	06.07.16	06.07.16	2.6	<2	<1	7.08	13	<1	0.13	7.62	
14.07.16	22.07.16	25.07.16	16.6	<2	<1	7.63	13	<1	0.04	18.8	Cause of high ammonia and nitrogen being investigated
11.08.16	24.08.16	25.08.16	19.8	<2	<1	7.44	12	<1	0.09	23.2	
08.09.16	19.09.16	20.09.16	17.2	2	<1	7.39	21	<1	0.19	19.3	Cause of high ammonia and total nitrogen being investigated and measures implemented to reduce them
12.10.16	18.10.16	19.10.16	10.6	4	<2	7.43	14	<1	0.15	13.9	
17.11.16	28.11.16	29.11.16	0.7	4	<2	7.81	16	<1	0.24	3.04	
07.12.16	13.12.16	14.12.16	0.7	4	<1	7.51	10	<1	0.17	2.85	
12.01.17	18.01.17	19.01.17	0.5	<2	<1	7.62	11	<1	0.16	3.52	
09.02.17	16.02.17	17.02.17	0.4	3	20	7.63	12	<1	0.10	3.67	
09.03.17	20.03.17	22.03.17	0.6	<2	10	7.80	7	<1	0.08	4.83	
06.04.17	20.04.17	26.04.17	0.6	<2	<2	7.81	11	<1	0.09	3.50	
04.05.17	11.05.17	12.05.17	0.6	<2	<2	7.70	20	<1	0.17	5.00	
19.06.17	27.06.17	28.06.17	0.3	<2	<1	7.77	15	<1	0.10	3.50	
20.07.17	28.07.17	31.07.17	0.8	3	<1	7.68	15	<1	0.16	4.13	
24.08.17	31.08.17	01.09.17	0.2	4	<2	7.76	19	<1	0.20	3.11	
12.09.17	20.09.17	21.07.17	0.7	4	<1	7.66	24	<1	0.23	4.07	
12.10.17	20.10.17	24.10.17	0.9	2	<2	7.85	20	<1	0.29	3.15	
16.11.17	24.11.17	27.10.17	1.2	2	<2	7.85	14	<1	0.12	3.52	
13.12.17	19.12.17	21.12.17	0.5	4	1	7.70	11	<1	0.12	3.62	
10.01.18	22.01.18	23.01.18	0.6	4	<2	7.61	15	<1	0.18	4.47	
08.02.18	19.02.18	20.02.18	0.5	5	<2	7.46	14	<1	0.12	3.23	

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Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10				
08.03.18	21.03.18	22.03.18	0.7	4	<2	7.74	15	<1	0.06	4.56	
12.04.18	21.04.18	01.05.18	0.7	<2	<1	7.52	11	<1	0.14	4.22	
29.05.18	06.06.18	07.06.18	1.0	2	<2	7.71	14	<1	0.33	4.47	
14.06.18	21.06.18	22.06.18	0.4	<2	<2	7.78	13	<1	0.21	5.01	
12.07.18	20.07.18	23.07.18	0.3	<2	<2	7.66	29	<1	0.27	9.8	
06.08.18	23.08.18	27.08.18	0.5	<2	<2	7.50	22	<1	0.24	10.4	Cause of high SS and T-N are being investigated and measures are being implemented.
06.09.18	14.09.18	17.09.18	0.3	<2	<2	7.74	16	<1	0.15	5.39	
04.10.18	18.10.18	22.10.18	<0.1	<2	2	7.82	15	<1	0.14	4.6	
08.11.18	23.11.18	26.11.18	0.8	<2	5	7.63	18	<1	0.20	7.15	
06.12.18	18.12.18	20.12.18	0.3	<2	<1	7.79	12	<1	0.09	3.43	
03.01.19	16.01.19	17.01.19	0.4	<2	2	7.55	8	<1	0.04	4.09	
07.02.19	20.02.19	21.02.19	0.4	<2	34	7.70	6	<1	0.06	4.35	
28.03.19	12.04.19	12.04.19	0.2	2	<2	7.54	15	<1	1.96	5.68	High T-P is an anomaly and is being investigated
09.04.19	02.05.19	14.05.19	0.4	<2	82	7.55	19	<1	2.99	5.42	High T-P is an anomaly and is being investigated
09.05.19	23.05.19	30.05.19	0.5	3	<1	7.15	10	<1	0.16	8.89	
06.06.19	21.06.19	25.06.19	0.3	<2	<1	7.16	11	<1	0.19	4.97	
11.07.19	25.07.19	12.08.19	<0.1	2	<2	7.23	16	<1	0.15	4.63	
07.08.19	17.08.19	20.08.19	2.6	<2	<2	7.26	17	<1	0.20	7.28	High Ammonia is being investigated. Higher suspended solids are due to algal matter during drought-like conditions
04.09.19	13.09.19	17.09.19	2.2	<2	<1	7.50	12	<1	0.07	5.45	High Ammonia is being investigated

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			Ammonia (as N) mg/L Limit: 2	BOD <sub>5</sub> mg/L Limit: 10	Faecal Coliform CFU/100mL Limit: 200	pH Limit: 6.5-8.5	Suspended Solids mg/L Limit: 15	Total Oil & Grease mg/L Limit: 2	Total Phosphorus (as P) mg/L Limit: 0.3	Total Nitrogen (as N) mg/L Limit:10	
02.10.19	11.10.19	14.10.19	1.5	2	<1	7.15	16	<1	0.15	4.86	Higher suspended solids are due to algal matter during drought-like conditions
13.11.19	22.11.19	26.11.19	1.4	2	<2	7.84	11	<1	0.08	4.18	
03.12.19	16.12.19	19.12.19	1.3	2	<1	7.52	11	<1	0.08	4.64	
09.01.20	24.01.20	30.01.20	0.3	<2	2	7.73	20	<1	0.19	3.12	Higher suspended solids are due to algal matter during drought-like conditions
13.02.20	26.02.20	27.03.20	0.3	<2	<1	7.31	13	<1	0.11	4.14	
11.03.20	24.03.20	27.03.20	0.3	<2	<1	7.68	5	<1	0.09	4.27	
15.04.20	29.04.20	30.04.20	0.5	<2	<1	7.48	13	<1	0.06	4.49	
14.05.20	25.05.20	25.05.20	0.3	<2	2	7.49	17	<1	0.10	4.29	Sloughing-off from Catch Balance Pond caused higher SS
10.06.20	18.06.20	23.06.20	0.4	3	<1	7.46	15	<1	0.10	3.99	
09.07.20	20.07.20	21.07.20	1.0	<2	<1	7.45	16	<1	0.12	4.02	Sloughing-off from Catch Balance Pond caused higher SS
19.08.20	27.08.20	28.08.20	11.2	5	3	7.66	38	<1	0.19	15.2	Extreme wet weather and prevailing cold temperature caused SS and Nitrogen exception
17.09.20	28.09.20	29.09.20	0.2	<2	<1	7.97	4	<1	0.08	4.29	
14.10.20	21.10.20	22.10.20	1.3	3	9	6.86	9	<1	0.12	4.29	
23.11.20	02.12.20	03.12.20	0.5	3	200	7.24	5	<1	0.08	2.91	
16.12.20	30.12.20	04.01.21	0.7	<2	<1	7.73	3	<1	0.09	4.7	
15.01.21	25.01.21	27.01.21	1.0	3	<1	7.27	6	<1	0.12	4.16	
03.02.21	12.02.21	15.02.21	0.8	<2	7	7.43	6	<1	0.16	5	
04.03.21	16.03.21	17.03.21	1.4	<2	4	7.81	6	<1	0.16	4.6	

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			Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10	
14.04.21	21.04.21	23.04.21	1.1	8	22	7.59	11	<1	0.41	4.07	Rectified alum dosing that caused increase in phosphorus reading
20.05.21	28.05.21	31.05.21	3.4	3	<1	6.74	16	<1	0.11	6.83	SS exceeded marginally. Prevailing cold temperature caused exception of Ammonia.
10.06.21	22.06.21	24.06.21	8.0	<2	<1	7.06	18	<1	0.16	10.3	SS and Total Nitrogen exceeded marginally. Prevailing cold temperature caused exception of Ammonia.
14.07.21	22.07.21	30.07.21	17.8	<2	<1	7.39	16	<1	0.02	17.8	Prevailing cold temperature may have caused exception of Ammonia. Exceedance of Total Nitrogen appears to be a laboratory error and is being investigated. SS exceeded marginally.
04.08.21	12.08.21	17.08.21	8.4	<2	14	7.58	13	<1	0.14	12.2	Prevailing cold temperature may have caused exception of Ammonia. Total Nitrogen exceeded marginally.
22.09.21	30.09.21	05.10.21	0.2	2	2	7.44	5	<1	0.26	3.88	
22.10.21	02.11.21	03.11.21	0.6	<2	<1	6.92	11	<1	0.09	3.37	
03.11.21	11.11.21	12.11.21	0.6	3	<1	7.71	6	<1	0.17	4.11	
08.12.21	17.12.21	20.12.21	1.0	9	920	6.92	18	<1	0.32	3.51	Heavy overnight rainfall on 7th December and on the day of sampling increased SS and T-P. E.coli exceedance was due to the malfunction of UV transmitter (HIPPO) which was repaired on 16th December
05.01.22	13.01.22	14.01.22	1.1	2	<2	6.77	7	<1	0.16	2.66	
02.02.22	10.02.22	10.02.22	0.7	3	1	7.29	7	<1	0.2	2.59	

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Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10				
03.03.22	15.03.22	17.03.22	0.6	2	<2	7.44	8	<1	0.23	2.3	
08.04.22	22.04.22	26.04.22	2.5	4	332	7.8	19	<1	0.31	8.36	Due to the rainfall on the day of sampling SS, Ammonia and T-P exceeded marginally. E.coli exceedance was due to the malfunction of UV wipers. It's been under process of repair and waiting for required parts availability.
11.05.22	20.05.22	24.05.22	0.6	<2	1	7.92	6	<1	0.24	4.36	
15.06.22	22.06.22	23.06.22	0.8	3	<1	6.86	10	<1	0.10	4.27	
06.07.22	06.07.22	14.07.22	0.4	3	1	7.48	6	<1	0.18	3.27	
29.08.22	06.09.22	06.09.22	0.7	26	290	7.24	37	<1	0.86	3.89	The T-P exceeded due to malfunction of alum dosing pump and pumps were rectified. Accumulation of sludge in the catch Balance Pond due to recurring wet weather caused BOD, E.coli and SS. Catch Balance Pond is scheduled for cleaning in early September.
14.09.22	23.09.22	26.09.22	0.6	3	<2	8.01	9	<1	0.21	3.81	
05.10.22	14.10.22	17.10.22	0.4	3	84	7.35	8	<1	0.16	2.6	
03.11.22	15.11.22	22.11.22	0.5	3	1860	7.71	10	<1	0.16	10.2	E.coli exceedance was due to malfunctioning of UV lamps and a service call is scheduled for let November. T-N exceeded marginally due to ongoing wet weather.

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**Yass Sewage Treatment Plant, Faulder Avenue, YASS, NSW 2582**

Link to Public Register: <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>

**Yass Sewage Treatment Plant Effluent Quality Data since 2012**

EPA Sampling Point: 10 (refer site map for Location)			Monitoring Frequency : Monthly								Comment
Date Sampled	Date Results Obtained	Date Results Published	Pollutant								
			Ammonia (as N) mg/L Limit: 2	BOD <sub>5</sub> mg/L Limit: 10	Faecal Coliform CFU/100mL Limit: 200	pH Limit: 6.5-8.5	Suspended Solids mg/L Limit: 15	Total Oil & Grease mg/L Limit: 2	Total Phosphorus (as P) mg/L Limit: 0.3	Total Nitrogen (as N) mg/L Limit:10	
05.12.22	16.12.22	16.12.22	1.0	3	2	7.51	14	<1	0.34	4.85	T-P exceeded marginally due to sloughing off from UV channel and Catch Balance pond.
05.01.23	17.01.23	17.01.23	1.8	3	18	7.57	11	<1	0.33	3.94	T-P exceeded marginally due to sloughing off from UV channel and Catch Balance pond.
02.02.23	13.02.23	14.02.23	0.9	<2	<2	7.48	8	<1	0.15	3.91	
09.03.23	21.03.23	21.03.23	0.8	2	<2	7.58	6	<1	0.10	4.76	
20.04.23	05.05.23	08.05.23	21.2	4	550	7.43	6	<1	0.21	21.9	Operational measurements of Ammonia, T-N & T-P was below the limits.  However, intermittent failure of aerators at the STP may have resulted in the exceedance of Ammonia, T-N & E.coli.  The aerator issues were inspected and resolved on 2 May 2023.
04.05.23	12.05.23	15.05.23	0.4	<2	2	8.05	3	<1	0.09	4.39	
13.06.23	21.06.23	22.06.23	0.6	<2	<2	7.26	14	<1	0.79	3.9	Non-conformance of T-P, Due to malfunction of alum dosing system. Scheduled for repair
14.07.23	26.07.23	26.07.23	0.2	<2	<2	7.24	6	<1	0.11	5.13	
03.08.23	15.08.23	17.08.23	1.1	<2	<2	7.37	8	<1	0.15	12.2	T-N marginally exceeded the limit. Operational monitoring was within limits and this will be further investigated.
06.09.23	15.09.2023	18.09.2023	1.2	<2	<2	7.92	6	<1	0.12	4.73	



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**Yass Sewage Treatment Plant Effluent Quality Data since 2012**

EPA Sampling Point: 10 (refer site map for Location)			Monitoring Frequency : Monthly								
Date Sampled	Date Results Obtained	Date Results Published	Pollutant								Comment
			Ammonia (as N) mg/L	BOD <sub>5</sub> mg/L	Faecal Coliform CFU/100mL	pH	Suspended Solids mg/L	Total Oil & Grease mg/L	Total Phosphorus (as P) mg/L	Total Nitrogen (as N) mg/L	
			Limit: 2	Limit: 10	Limit: 200	Limit: 6.5-8.5	Limit: 15	Limit: 2	Limit: 0.3	Limit:10	
12.10.23	23.10.23	24.10.23	0.2	<2	34	7.74	6	<1	0.10	3.6	
08.11.23	20.11.23	21.11.23	<0.1	<2	1	8	6	<1	0.08	3.64	
07.12.23	19.12.23	19.12.23	0.5	<2	2	7.88	7	<1	0.09	4.29	
11.01.24	19.01.24	22.01.24	0.6	5	60	7.67	9	<1	0.21	4.7	
08.02.24	19.02.24	19.02.24	0.6	3	250	7.29	11	<1	0.20	5.2	Faecal Coliform exceeded the limit due to malfunctioning of UV lamps. It's been resolved lately.
06.03.24	18.03.24	20.03.24	0.4	4	<2	7.54	8	<1	0.14	5.01	
11.04.24	22.04.24	10.05.24	0.7	<2	54	7.3	4	<1	0.18	8.76	
09.05.24	15.05.24	16.05.24	0.9	<2	46	7.49	15	<1	0.28	4.04	
05.06.24	14.06.24	18.06.24	2.1	4	6	7.8	4	<1	0.23	6.25	Ammonia marginally exceeded the limit. Operational monitoring results were within the limit in the following week.
04.07.24	11.07.24	12.07.24	1.6	3	132	7.82	8	<1	0.21	4.33	
08.08.24	21.08.24	22.08.24	0.5	3	<2	7.78	12	<1	0.33	3.71	