

Guyra Waste Water Treatment Plant, 7776 Guyra Road, GUYRA NSW 2365, Licence No. 1671																		
Monitoring Point 1 - discharge to Laura Ck		Licence Period 01May 2023 to 30 April 2024																
Parameter/month	90th %ile	Units	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Minimum	Average	Maximum	90th %ile
Sample date	Limits	date	31-May	29-Jun	27-Jul	31-Aug	29-Sep	31-Oct	29-Nov	28-Dec	31-Jan	28-Feb	27-Mar					
pH	6.5-8.5		8.20	7.57	8.26	8.66	7.59	7.53	7.32	7.46	7.59	7.43	7.33		7.3	7.7	8.66	8
EC	no limit	uS/cm	506	617	705	533	617	643	469	374	582	535	635		374	565	705	643
TSS	<20	mg/L	10	45	45	30	13	5	8	10	15	5	5		5	17	45	45.0
BOD5	<15	mg/L	2.0	45.0	19.50	8.25	6.60	5.70	4.95	5.70	7.95	5.1	6.3		2	10.6	45	19.5
Ammonia-N	<5	mg/L	0.52	17.60	30.70	1.42	1.67	4.66	1.62	1.52	3.65	1.05	1.20		0.52	6.0	30.70	17.6
TKN	no limit	mg/L	3.30	29.30	45.10	5.00	3.30	5.20	2.30	2.90	5.10	2.50	2.20		2.20	9.7	45.10	29.3
NOx-N	no limit	mg/L	1.87	0.18	0.11	0.19	0.35	0.72	0.10	0.35	0.38	0.68	0.96		0.10	0.0	1.87	0.96
Total N	<15	mg/L	5.20	29.50	45.20	5.20	3.70	5.90	2.50	3.20	5.50	3.20	3.20		2.50	10.2	45.20	29.5
SRP	no limit	mg/L	0.06	2.90	0.96	0.14	0.43	0.86	0.43	0.37	0.71	0.26	0.26		0	0.0	3	1.0
TP	<1	mg/L	0.17	3.56	2.16	0.42	0.55	1.15	0.61	0.57	1.03	0.44	0.48		0.17	1.0	3.56	2.2
TOG	<10	mg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
Weir FC	no limit	cfu/100 ml	104	>5000	260	24	20	160	96	328	1000	240	108		20	234	1000	395
Inflow FC	no limit	cfu/100 ml	4200	>5000	>5000	7600	4800	4800	2800	4200	8000	6000	10 000		2800	5300	8000	7720
Cumulative monthly discharge		ML	17.34	43.97	57.70	70.28	81.60	94.32	107.21	125.88	140.83	153.11	168.14	Allowable annual total = 218 ML				
Report Date			06-Jun	04-Jun	01-Aug	05-Aug	03-Oct	05-Oct	04-Dec	02-Jan	05-Feb	04-Mar	02-Apr					

Abbreviations: EC (electrical conductivity); TSS (total suspended solids); BOD5 (5-day biochemical oxygen demand); TKN (total Kjeldahl nitrogen); NOx-N (nitrate + nitrite as nitrogen); Total N (total nitrogen); SRP (orthophosphate); TP (total phosphorus); TOG (total oil & grease); FC (faecal coliforms)

The top value on the Y-axis for TSS, BOD5 and TOG are the limits of the licence.

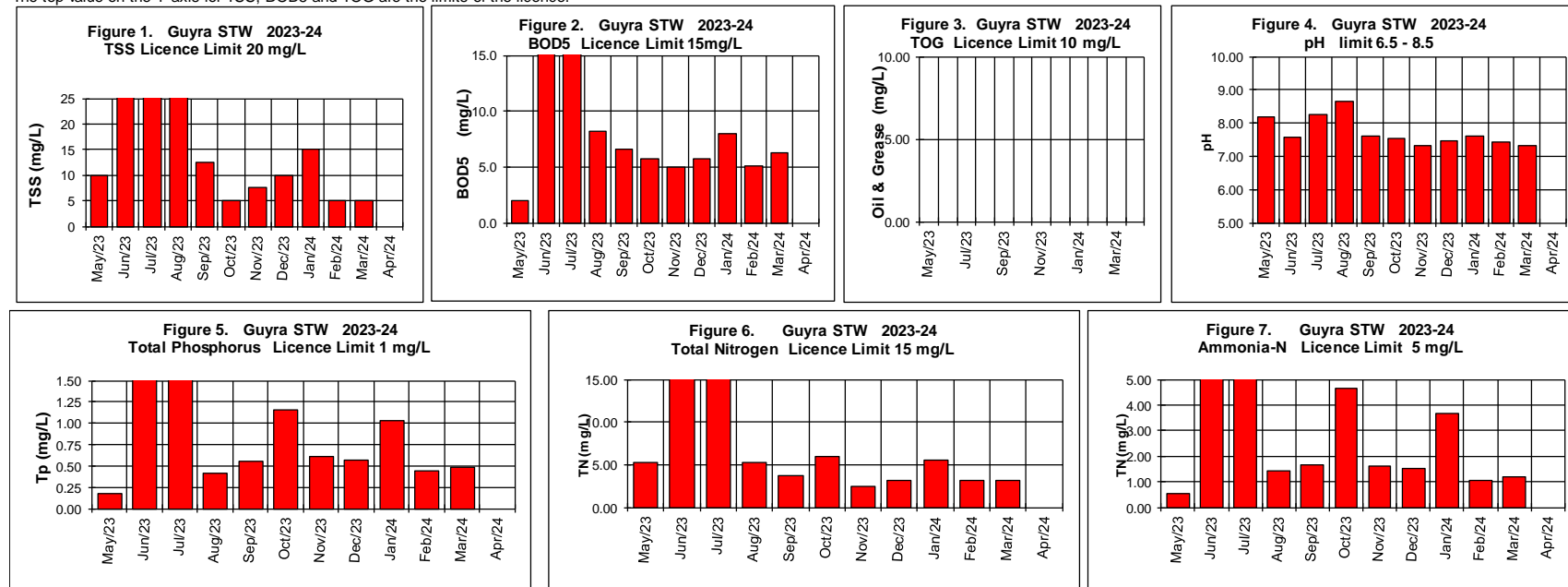


Table 2. Water Quality Monitoring data for licence period

Note: Significant mechanical breakdown in the aeration system JUN23 and JUL23, TSS, BOD5, Ammonia-N, Total N and TP outside parameters. Elevated TSS AUG23, Elevated TP OCT23, elevated TP JAN24