

**UPPER LACHLAN SHIRE COUNCIL  
CROOKWELL WASTE WATER TREATMENT WORKS  
EPA LICENCE NO. 1938**

**Point 1**

**Discharge pipe from the maturation pond to the wetland that flows via a waterway to the Crookwell River**

DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN AMMONIA mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL	CHLOROPHYLL A	Comments
SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED										
Limit			20	6.5-8.5	30		15	10	1	600		
19/07/2012	19/07/2012	25/07/2012	6	8.7	12	<0.1	6.4	<1	0.25	540	240	
21/08/2012	22/08/2012	27/08/2012	8	9.4	18	<0.1	5.3	<1	0.27	4	360	
26/09/2012	27/09/2012	3/10/2012	10	9.8	18	<0.1	3.4	<1	0.24	18	0.91	
31/10/2012	1/11/2012	6/11/2012	3	8.4	6	0.6	3.4	<1	0.32	36	23	
28/11/2012	29/11/2012	13/12/2012	2	7.7	11	<0.1	0.76	<1	0.34	260	0.8	
18/12/2012	19/12/2012	24/12/2012	8	7.9	16	1.9	4.3	<1	1.1	27	54	
30/01/2013	31/01/2013	5/02/2013	6	9.6	19	<0.1	2.5	<1	0.75	120	180	
27/02/2013	28/02/2013	7/03/2013	4	8.9	16	0.2	2.4	<1	0.39	60	190	
3/04/2013	4/04/2013	10/04/2013	14	8.8	25	0.3	5.4	<1	0.32	300	270	
1/05/2013	2/05/2013	7/05/2013	15	9.8	29	0.5	5.1	<1	0.37	18	490	
29/05/2013	30/05/2013	4/06/2013	27	9	33	1.7	7.9	<1	0.45	76	860	
26/06/2013	27/06/2013	2/07/2013	4	7.8	13	1.3	9.5	<1	0.24	2900	140	
24/07/2013	25/07/2013	30/07/2013	4	8.2	18	0.5	5.8	<1	0.19	900	170	
4/09/2013	5/09/2013	11/09/2013	7	8.6	10	1.1	4	<1	0.19	280	120	
25/09/2013	26/09/2013	2/10/2013	22	9.5	18	0.3	5.6	<1	0.35	2	340	
23/10/2013	24/10/2013	31/10/2013	15	10.1	49	0.9	6.6	<1	0.58	2	760	
27/11/2013	28/11/2013	9/12/2013	14	10.2	28	<0.1	3.6	<1	0.3	4	211	
18/12/2013	19/12/2013	30/12/2013	10	9.77	28	<0.1	1.99	<1	0.72	14	151	
30/01/2014	30/01/2014	10/02/2014	11	9.06	13	0.1	2.41	<1	0.47	20	32.8	
26/02/2014	27/02/2014	7/03/2014	12	9.22	21	0.2	3.46	<1	0.42	14	222	
27/03/2014	27/03/2014	5/04/2014	5	9.45	25	0.7	4.15	<1	0.37	490	159	
30/04/2014	1/05/2014	12/05/2014	8	8.67	34	2.7	8.16	<1	0.47	1500	392	
29/05/2014	29/05/2014	10/06/2014	19	8.46	31	6.4	11.4	<1	0.39	12400	409	
26/06/2014	26/06/2014	3/07/2014	7	8.06	15	6.2	10.2	<1	0.24	6300	192	
7/08/2014	7/08/2014	15/08/2014	10	9.27	21	0.8	4.53	<1	0.27	80	338	
27/08/2014	28/08/2014	5/09/2014	6	8.53	14	0.2	4.67	<1	0.22	880	158	
24/09/2014	25/09/2014	1/10/2014	10	9.47	14	1.3	4.28	<1	0.22	300	274	
4/11/2014	5/11/2014	11/11/2014	7	8.48	10	4.8	7.1	<1	0.62	80	98.4	
26/11/2014	27/11/2014	4/12/2014	8	9.92	34	<0.1	2.16	<1	0.53	80	397	
17/12/2014	18/12/2014	31/12/2014	10	9.65	40	<0.1	2.22	<1	0.9	52	254	
29/01/2015	29/01/2015	5/02/2015	11	8.2	28	0.6	4.16	<1	0.53	333	147	
4/03/2015	5/03/2015	17/03/2015	9	9.52	45	0.1	3.87	<1	0.63	230	245	
31/03/2015	1/04/2015	13/04/2015	8	9.61	38	<0.1	3.68	<1	0.35	172	218	
22/04/2015	23/04/2015	2/05/2015	6	8.52	26	0.3	4.35	<1	0.3	6000	220	
19/05/2015	20/05/2015	29/05/2015	20	8.09	17	3.4	8.73	<1	0.23	190	169	
23/06/2015	24/06/2015	2/07/2015	11	7.67	14	5.1	9.11	<1	0.18	360	136	
28/07/2015	29/07/2015	6/08/2015	2	7.63	4	1.5	5.64	<1	0.1	260	32.1	

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DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN AMMONIA mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL	CHLOROPHYLL A	Comments
SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED										
Limit			20	6.5-8.5	30		15	10	1	600		
1/09/2015	2/09/2015	8/09/2015	2	7.53	4	0.6	5.9	<1	0.09	260	36.5	
29/09/2015	30/09/2015	8/10/2015	17	8.33	16	0.3	4.5	<1	0.24	2	162	
27/10/2015	28/10/2015	6/11/2015	12	9.74	38	<0.1	2.98	<1	0.37	26	177	
18/11/2015	18/11/2015	26/11/2015	8	9.95	18	<0.1	2.21	<1	0.17	4	154	
15/12/2015	16/12/2015	23/12/2015	6	10	22	<0.1	1.98	<1	0.49	2	178	
26/01/2016	27/01/2016	5/02/2016	<2	9.36	22	0.8	3.98	<1	0.63	90	171	
23/02/2016	24/02/2016	3/03/2016	5	9.09	22	0.4	3.17	<1	0.55	540	113	
22/03/2016	23/03/2016	2/04/2016	8	9.3	26	0.6	4.87	<1	0.3	460	205	
26/04/2016	27/04/2016	5/05/2016	6	8	26	5.9	11.1	<1	0.3	3100	174	
31/05/2016	1/06/2016	15/06/2016	12	8.5	29	3	9.78	<1	0.24	496	173	
21/06/2016	22/06/2016	6/07/2016	2	7.67	6	0.5	6.21	<1	0.18	1400	29.6	
26/07/2016	27/07/2016	2/08/2016	<2	7.55	2	0.1	7.93	<1	0.14	240	6.8	
30/08/2016	31/08/2016	10/09/2016	7	8.17	11	<0.1	5.58	<1	0.28	740	64.7	
4/10/2016	5/10/2016	12/10/2016	<2	7.68	9	0.4	8.42	<1	0.18	1270	36.6	
25/10/2016	26/10/2016	3/11/2016	4	8.6	2	1.7	6.61	<1	0.13	30	2.48	
30/11/2016	30/11/2016	6/12/2016	7	7.7	7	8.6	11	<1	0.47	16	26.6	
20/12/2016	21/12/2016	3/01/2017	10	8.7	23	0.7	4.56	<1	0.45	6	164	
17/01/2017	18/01/2017	24/01/2017	18	9.02	52	0.8	7.64	<1	0.88	270	266	
7/02/2017	8/02/2017	8/02/2017	8	9.11	30	0.6	3.71	<1	0.64	4260	150	
21/03/2017	22/03/2017	22/03/2017	7	9.2	35	0.2	4.68	<1	0.58	1160	222	
25/04/2017	26/04/2017	4/05/2017	11	8.7	25	0.7	5.13	<1	0.32	1660	188	
23/05/2017	24/05/2017	30/05/2017	19	8.28	53	10.6	18.3	<1	0.44	2120	853	
27/06/2017	28/06/2017	4/07/2017	8	7.92	11	18.8	22.2	1	0.17	860	114	
25/07/2017	25/07/2017	31/07/2017	15	7.86	15	19.9	25.1	<1	0.18	80	200	
22/08/2017	23/08/2017	29/08/2017	9	7.88	10	5.8	10.3	<1	0.12	128	107	
26/09/2017	27/09/2017	5/10/2017	7	8.44	21	7	11	<1	0.23	122	286	
31/10/2017	1/11/2017	9/11/2017	9	8.34	29	3.2	8.17	<1	0.33	760	537	
28/11/2017	29/11/2017	5/12/2017	6	7.94	15	0.2	3.41	<1	0.18	1880	114	
19/12/2017	19/12/2017	2/01/2018	5	9.65	17	<0.1	2.32	<1	0.42	<2	198	
6/02/2018	7/02/2018	14/02/2018	6	8.89	14	<0.1	2.29	<1	0.26	320	153	
27/02/2018	28/02/2018	9/03/2018	6	8.81	26	0.6	4.91	<1	0.32	400	270	
27/03/2018	28/03/2018	6/04/2018	7	9.69	28	<0.1	3.57	<1	0.27	16	291	
23/04/2018	24/04/2018	4/05/2018	3	8.9	10	<0.1	2.85	<1	0.11	570	78.1	
22/05/2018	23/05/2018	4/06/2018	5	7.7	11	0.2	6.53	<1	0.12	1100	122	
26/06/2018	27/06/2018	2/07/2018	2	7.62	5	0.4	6.14	<1	0.07	<2	33.8	
31/07/2018	1/08/2018	10/08/2018	6	8.15	10	0.3	5	<1	0.12	48	160	
28/08/2018	29/08/2018	7/09/2018	6	8.83	10	<0.1	4.86	<1	0.12	2	168	

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SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED										
Limit			20	6.5-8.5	30		15	10	1	600		
18/09/2018	19/09/2018	27/09/2018	8	9.27	13	0.1	4.11	<1	0.18	<2	168	
22/10/2018	23/10/2018	7/11/2018	7	8.07	12	2.2	4.6	<1	0.3	36000	70.6	
27/11/2018	28/11/2018	11/12/2018	5	9.95	17	<0.1	3.03	<1	0.2	2	232	
18/12/2018	19/12/2018	2/01/2019	8	8.8	12	<0.1	7.03	<1	0.15	234	182	
29/01/2019	30/01/2019	7/02/2019	6	9.49	21	<0.1	2.35	<1	0.64	242	122	
26/02/2019	27/02/2019	8/03/2019	3	9.47	12	<0.1	2.45	<1	0.34	44	59.8	
26/03/2019	27/03/2019	9/04/2019	4	9.49	32	<0.1	5.33	<1	0.42	78	374	
29/04/2019	30/04/2019	13/05/2019	3	9.05	21	<0.1	5.38	<1	0.25	144	192	
27/05/2019	28/05/2019	13/06/2019	3	9.39	26	<0.1	5.1	<1	0.22	14	294	
25/06/2019	26/06/2019	8/07/2019	10	8.94	14	<0.1	5.45	<1	0.19	90	256	
23/07/2019	24/07/2019	2/08/2019	10	9.53	12	<0.1	5.37	<1	0.2	2	316	
26/08/2019	27/08/2019	9/09/2019	12	9.97	17	<0.1	3.62	<1	0.18	2	298	
30/09/2019	1/10/2019	15/10/2019	9	10.3	32	<0.1	3.71	<1	0.4	23000	213	
29/10/2019	30/10/2019	8/11/2019	55	7.66	46	<0.1	4.08	<1	0.42	2	1140	
25/11/2019	26/11/2019	9/12/2019	12	9.63	10	0.6	5.4	<1	0.37	50	94.3	
30/12/2019	31/12/2019	17/01/2020	13	8.97	19	0.1	3.43	<1	0.47	18	132	
28/01/2020	29/01/2020	11/02/2020	22	8.2	42	<1	4.13	<1	0.76	380	80	
26/02/2020	27/02/2020	13/03/2020	8	9.06	19	0.3	2.64	<1	0.42	82	103	
23/03/2020	24/03/2020	3/04/2020	5	9.41	16	2.6	6.76	<1	0.2	58	134	
21/04/2020	22/04/2020	4/05/2020	8	8.87	42	0.4	7.25	<1	0.43	70	353	
19/05/2020	20/05/2020	28/05/2020	10	8.13	18	5.1	8.01	<1	0.16	187	324	
23/06/2020	24/06/2020	30/06/2020	8	8.07	15	4.8	9.12	<1	0.14	440	322	
20/07/2020	21/07/2020	28/07/2020	16	7.99	18	5.1	10.7	<1	0.26	160	348	
18/08/2020	19/08/2020	27/08/2020	3	7.49	4	0.6	7.36	<1	0.38	296	21.2	
22/09/2020	23/09/2020	30/09/2020	10	8.93	18	0.1	2.97	<1	0.3	94	286	
19/10/2020	20/10/2020	26/10/2020	12	9.36	18	>0.1	2.73	<1	0.3	14	288	
16/11/2020	17/11/2020	24/11/2020	14	10.2	19	<0.1	3.25	<1	0.31	2	278	
15/12/2020	16/12/2020	29/12/2020	7	7.84	14	0.6	2.81	<1	0.4	98	126	
19/01/2021	20/01/2021	28/01/2021	10	8.94	18	0.1	2.61	<1	0.78	20	83.9	
15/02/2021	16/02/2021	23/02/2021	5	7.07	15	0.9	3.73	<1	0.43	77	76	
16/03/2021	17/03/2021	30/03/2021	9	7.31	26	0.1	3.7	<1	0.32	696	232	
19/04/2021	20/04/2021	29/04/2021	9	9.1	17	<0.1	3.47	<1	0.18	2	204	
18/05/2021	19/05/2021	27/05/2021	5	9.02	21	<0.1	3.91	<1	0.28	24	217	
21/06/2021	22/06/2021	28/06/2021	2	8.74	18	<0.1	4.62	<1	0.35	4140	296	
20/07/2021	21/07/2021	28/07/2021	2	7.77	6	<0.1	7.99	<1	0.2	17000	42.4	
18/08/2021	19/08/2021	25/08/2021	2	7.93	4	0.2	6.63	<1	0.23	46	16.7	
20/09/2021	21/09/2021	29/09/2021	3	7.51	9	<0.1	4.28	<1	0.23	196	81.7	

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SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED										
Limit			20	6.5-8.5	30		15	10	1	600		
18/10/2021	19/10/2021	28/10/2021	4	7.85	10	<0.1	4.29	<1	0.23	44	82.4	
23/11/2021	24/11/2021	3/12/2021	3	7.65	9	<0.1	5.33	<1	0.22	264	77.9	
20/12/2021	21/12/2021	31/12/2021	4	7.85	3	1.2	4.83	<1	0.33	5300	12.6	
17/01/2022	18/01/2022	25/01/2022	4	9.66	3	0.1	2.73	<1	0.2	84	13.2	
14/02/2022	15/02/2022	23/02/2022	11	9.97	36	<0.1	3.8	<1	0.63	1480	345	
16/03/2022	17/03/2022	28/03/2022	9	9.17	19	<0.1	2.39	<1	0.35	340	286	
20/04/2022	21/04/2022	3/05/2022	10	8.85	23	0.1	4.94	<1	0.8	1040	385	
18/05/2022	19/05/2022	31/05/2022	7	8.92	18	<0.1	3.07	<1	0.11	1180	144	
21/06/2022	22/06/2022	30/06/2022	6	9.09	17	<0.1	3.92	<1	0.21	280	205	
19/07/2022	20/07/2022	27/07/2022	4	8.1	3	<0.1	2.79	<1	0.74	800	73.2	Maturation Pond short circuiting
16/08/2022	17/08/2022	25/08/2022	2	7.68	5	0.2	4.63	<1	0.1	720	29.1	Maturation Pond short circuiting
14/09/2022	15/09/2022	29/09/2022	5	9.01	12	<0.1	3.26	<1	0.14	94	86.7	
14/10/2022	15/10/2022	29/10/2022	2	7.53	5	<0.1	4.51	<1	0.22	620	34.7	Maturation Pond short circuiting
23/11/2022	24/11/2022	1/12/2022	2	7.45	3	0.3	4.58	<1	0.12	60	11	
14/12/2022	15/12/2022	23/12/2022	4	9.38	6	<0.1	3.18	<1	0.54	72	22.1	
18/01/2023	19/01/2023	27/01/2023	10	7.63	27	0.9	3.28	<1	0.52	640	159	
15/02/2023	16/02/2023	24/02/2023	8	8.66	18	0.3	2.74	<1	0.6	4	166	
22/03/2023	23/03/2023	29/03/2023	8	9.8	32	<0.1	3.18	<1	0.8	4	317	
19/04/2023	20/04/2023	2/05/2023	9	9.34	32	0.5	3.86	<1	0.4	340	347	
17/05/2023	18/05/2023	7/06/2023	9	8.05	28	<0.1	2.94	<1	0.18	1060	197	
21/06/2023	22/06/2023	30/06/2023	8	9.57	34	<0.1	3.66	<1	0.24	220	410	
31/07/2023	1/08/2023	11/08/2023	8	9.15	23	<0.1	3.19	<1	0.18	2	247	
28/08/2023	29/08/2-23	7/09/2023	4	9.18	23	<1	2.83	<1	0.2	52	188	
25/09/2023	26/09/2023	6/10/2023	5	8.07	16	0.4	3.34	<1	0.41	540	44.1	
24/10/2023	25/10/2023	3/11/2023	19	10.2	39	<0.1	2.69	<1	0.35	<2	230	
20/11/2023	21/11/2023	30/11/2023	8	10.9	42	<0.1	7.96	<1	0.7	6	380	Maturation Pond short circuiting and algal bloom, catch pont also has algal bloom and high pH due to low flows from dry weather.
18/12/2023	19/12/2023	4/01/2024	<2	7.56	12	2.8	5.02	<1	0.59	98	26.4	
15/01/2024	16/01/2024	25/01/2024	8	8.12	19	0.1	3.76	<1	0.5	1200	189	Exceeded Faecal coliforms due to algal bloom in maturation pond point 1 and catch pond point 2
8/02/2024	9/02/2024	19/02/2024	4	7.75	16	0.4	6.92	<1	0.28	1100	128	
13/03/2024	14/03/2024	25/03/2024	6	9.42	25	<0.1	1.67	<1	0.61	86	324	
15/04/2024	16/04/2024	23/04/2024	6	9.11	23	<0.1	3.34	<1	0.2	206	292	
20/05/2024	21/05/2024	30/05/2024	5	8.71	28	<0.1	3.59	<1	0.24	480	180	
17/06/2024	18/06/2024	26/06/2024	<2	7.11	7	0.3	5.48	<1	0.18	420	34.8	



