

POLLUTION MONITORING DATA

Licensee: Central Coast Council, PO Box 21 Gosford NSW 2250
Location of Pollution Monitoring Point: Ocean outfall tunnel, combined treated effluent from Kincumber and Woy Woy sewage treatment plants
Publishing Date: 18 June 2025

EPL No. 1802– Kincumber Sewage Treatment Plant
Licence Period: 1 June 2023- 31 May 2024

COMPLIANCE STATUS

Results obtained for licence period are within annual concentration limits.

Biochemical Oxygen Demand (BOD) (mg/L)	Oil and Grease (O&G) (mg/L)	Total Nitrogen (TN) (mg/L)	Total Phosphorus (TP) (mg/L)	Total Suspended Solids (TSS) (mg/L)	pH
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CONCENTRATION LIMITS

100 percentile	30	10	-	-	65	6.5 - 8.5
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POLLUTION MONITORING DATA SUMMARY (provided at end of annual reporting period)

Collected	Obtained	Published	BOD (mg/L)	O&G (mg/L)	TN (mg/L)	TP (mg/L)	TSS (mg/L)	pH
5/06/2023	16/06/2023	21/06/2023	<2	<5	23.0	4.07	14	7.1
16/06/2023	27/06/2023	3/07/2023	<2	<5	21.2	3.59	12	7.1
28/06/2023	06/07/2023	24/07/2023	2	<5	25.0	3.47	26	7.1
11/07/2023	27/07/2023	4/08/2023	2	<5	16.9	3.00	22	7.3
22/07/2023	02/08/2023	02/08/2023	3	<5	18.0	4.13	35	7.4
3/08/2023	11/08/2023	16/08/2023	<2	<5	13.2	3.09	7	7.4
15/08/2023	24/08/2023	29/08/2023	4	<5	19.6	3.55	33	7.2
27/08/2023	08/09/2023	13/08/2023	<2	<5	15.7	3.71	11	7.3
8/09/2023	21/09/2023	26/09/2023	2	<5	21.4	4.57	17	7.0
20/09/2023	09/10/2023	14/10/2023	<2	<5	16.6	3.94	7	7.3
3/10/2023	13/10/2023	18/10/2023	<2	<5	12.7	4.19	7	7.4
14/10/2023	25/10/2023	31/10/2023	9	<5	19.5	4.95	6	7.1
26/10/2023	03/11/2023	08/11/2023	3	<5	21.0	4.71	11	7.3
7/11/2023	16/11/2023	21/11/2023	2	<5	20.3	2.39	10	7.0
20/11/2023	28/11/2023	04/12/2023	<2	<5	22.2	3.34	6	7.1
4/12/2023	18/12/2023	25/12/2023	<2	<5	22.4	3.39	8	7.2
15/12/2023	29/12/2023	03/01/2024	<2	<5	12.1	3.22	7	7.4
28/12/2023	10/01/2024	15/01/2024	<2	<5	15.2	3.79	8	7.4
9/01/2024	19/01/2024	24/01/2024	4	<5	13.7	4.00	8	7.4
21/01/2024	07/02/2024	13/02/2024	<2	<5	15.0	4.14	8	7.4
02/02/2024	16/02/2024	21/02/2024	<2	<5	11.6	3.58	7	7.4
14/02/2024	26/02/2024	4/03/2024	<2	<5	4.73	3.46	14	7.6
26/02/2024	08/03/2024	13/03/2024	3	<5	10.1	2.07	11	7.5
11/03/2024	26/03/2024	1/04/2024	<2	<5	6.9	1.61	4	7.8
21/03/2024	05/04/2024	10/04/2024	<2	<5	4.6	1.78	6	7.6
02/04/2024	11/04/2024	16/04/2024	<2	<5	12.9	3.77	3	7.4
15/04/2024	29/04/2024	3/05/2024	<2	<5	13.3	1.54	6	7.4
26/04/2024	10/05/2024	15/05/2024	<2	<5	12.8	1.60	5	7.4
08/05/2024	17/05/2024	23/05/2024	<2	<5	8.55	1.25	10	7.3
20/05/2024	31/05/2024	04/05/2024	<2	<5	14.0	0.955	6	7.3

< : Where this symbol is shown, the result is below the limit at which the parameter can be accurately detected and reported.

n/a means not available.

Where results are below the laboratory detection limits (e.g. <2) half the value of the detection limit will be used for calculation purposes when all required data has been obtained. Where 50% or more of the sample results for a particular pollutant are below the detection limit, zero will be used for calculation purposes. This methodology is consistent with that outlined in the EPA's Load Calculation Protocol (June 2009) and will be applied when all required data for the licence period has been obtained.

POLLUTION MONITORING DATA

Licensee: Central Coast Council, PO Box 21 Gosford NSW 2250
EPL No. 1802– Kincumber Sewage Treatment Plant
Location of Pollution Monitoring Point: Ocean outfall tunnel, combined treated effluent from Kincumber and Woy Woy sewage treatment plants
Licence Period: 1 June 2023 – 31 May 2024
Publishing Date: 18 June 2025

COMPLIANCE STATUS

Licence Monitoring Frequency for below pollutant is twice per year. The licence does not prescribe concentration limits for these pollutants.

Unit	Aldrin	alpha-BHC	beta-BHC	Cadmium	Chlordane (cis & trans)	Chromium	Copper	Dieldrin	Endosulfan	Endrin	Gamma-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Lead	Mercury	Methoxychlor	p,p-DDD	p,p-DDE	p,p-DDT	PCBs	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
No. Samples Collected	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum value																							
Mean value																							
Median value																							
Maximum value																							
Limit of laboratory detection	0.01	0.01	0.01	0.1	0.01	0.2	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1	0.3	0.01	0.01	0.01	0.01	0.1	0.2	1

POLLUTION MONITORING DATA RESULTS																								
Collected	Obtained	Published																						
11 July 2023	27 July 2023	4 August 2023	<0.01	<0.01	<0.01	<0.1	<0.01	0.5	6.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.3	<0.01	<0.01	<0.01	<0.01	<0.1
20 Sept 2023	9 Oct 2023	16 Oct 2023	<0.01	<0.01	<0.01	<0.1	<0.01	0.5	4.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.3	<0.01	<0.01	<0.01	<0.01	<0.1
21 Jan 2024	7 Jan 2024	13 Jan 2024	<0.01	<0.01	<0.01	<0.1	<0.01	0.5	4.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.3	<0.01	<0.01	<0.01	<0.01	<0.1
2 April 2024	11 April 2024	16 April 2024	<0.01	<0.01	<0.01	<0.1	<0.01	0.6	3.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.3	<0.01	<0.01	<0.01	<0.01	<0.1

<: Where this symbol is shown, the result is below the level at which the parameter can be routinely tested and reported.
n/a means not available.
Where results are below the laboratory detection limits (e.g. <2) half the value of the detection limit will be used for calculation purposes when all required data has been obtained. Where 50% or more of the sample results for a particular pollutant are below the detection limit, zero will be used for calculation purposes. This methodology is consistent with that outlined in the EPA's Load Calculation Protocol (June 2009) and will be applied when all required data for the licence period has been obtained.

FLOW MONITORING DATA**Licensee:** Central Coast Council, PO Box 21 Gosford NSW 2250**EPL No. 1802**– Kincumber Sewage Treatment Plant**Location of Monitoring Point:** Discharge to ocean outfall tunnel, combined treated effluent from Kincumber and Woy Woy sewage treatment plants**Licence Period:** 1 June 2023 - 31 May 2024**Publishing Date:** 18 June 2025**COMPLIANCE STATUS**

Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 150,000 kilolitres/day

Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)
1/06/2023	41,980	1/07/2023	42,061	1/08/2023	39,980	1/09/2023	42,771	1/10/2023	39,686	1/11/2023	42,058	1/12/2023	45,200	1/01/2024	44,799
2/06/2023	39,342	2/07/2023	41,110	2/08/2023	40,092	2/09/2023	42,708	2/10/2023	41,564	2/11/2023	38,997	2/12/2023	44,610	2/01/2024	46,714
3/06/2023	44,066	3/07/2023	41,081	3/08/2023	41,506	3/09/2023	43,597	3/10/2023	41,483	3/11/2023	40,869	3/12/2023	45,164	3/01/2024	44,934
4/06/2023	42,946	4/07/2023	42,165	4/08/2023	41,534	4/09/2023	41,867	4/10/2023	42,072	4/11/2023	41,089	4/12/2023	43,503	4/01/2024	44,945
5/06/2023	42,809	5/07/2023	44,144	5/08/2023	40,512	5/09/2023	41,789	5/10/2023	42,535	5/11/2023	74,063	5/12/2023	43,930	5/01/2024	45,880
6/06/2023	42,920	6/07/2023	43,817	6/08/2023	53,271	6/09/2023	42,087	6/10/2023	42,250	6/11/2023	48,881	6/12/2023	41,929	6/01/2024	44,278
7/06/2023	43,263	7/07/2023	75,276	7/08/2023	44,296	7/09/2023	41,227	7/10/2023	41,863	7/11/2023	45,375	7/12/2023	42,684	7/01/2024	44,403
8/06/2023	42,492	8/07/2023	43,203	8/08/2023	43,860	8/09/2023	42,147	8/10/2023	41,560	8/11/2023	43,956	8/12/2023	44,119	8/01/2024	43,641
9/06/2023	42,726	9/07/2023	41,921	9/08/2023	42,863	9/09/2023	42,174	9/10/2023	41,188	9/11/2023	47,230	9/12/2023	45,250	9/01/2024	45,508
10/06/2023	42,673	10/07/2023	40,986	10/08/2023	42,567	10/09/2023	42,279	10/10/2023	39,751	10/11/2023	45,158	10/12/2023	43,074	10/01/2024	44,011
11/06/2023	41,710	11/07/2023	40,947	11/08/2023	42,636	11/09/2023	41,379	11/10/2023	36,216	11/11/2023	44,338	11/12/2023	43,949	11/01/2024	43,826
12/06/2023	43,182	12/07/2023	40,963	12/08/2023	42,428	12/09/2023	41,379	12/10/2023	40,660	12/11/2023	43,858	12/12/2023	42,081	12/01/2024	45,610
13/06/2023	41,785	13/07/2023	71,236	13/08/2023	41,408	13/09/2023	42,709	13/10/2023	40,688	13/11/2023	41,543	13/12/2023	41,829	13/01/2024	44,169
14/06/2023	42,449	14/07/2023	71,323	14/08/2023	51,422	14/09/2023	41,393	14/10/2023	41,252	14/11/2023	42,984	14/12/2023	42,478	14/01/2024	43,640
15/06/2023	42,382	15/07/2023	70,759	15/08/2023	46,896	15/09/2023	41,907	15/10/2023	40,611	15/11/2023	42,025	15/12/2023	41,906	15/01/2024	61,344
16/06/2023	42,123	16/07/2023	41,080	16/08/2023	44,754	16/09/2023	41,695	16/10/2023	40,587	16/11/2023	42,727	16/12/2023	42,615	16/01/2024	47,305
17/06/2023	42,955	17/07/2023	41,205	17/08/2023	44,127	17/09/2023	40,435	17/10/2023	40,406	17/11/2023	46,591	17/12/2023	41,551	17/01/2024	50,771
18/06/2023	43,169	18/07/2023	40,276	18/08/2023	45,390	18/09/2023	39,973	18/10/2023	41,627	18/11/2023	43,862	18/12/2023	42,082	18/01/2024	58,469
19/06/2023	11,564	19/07/2023	40,667	19/08/2023	44,593	19/09/2023	40,151	19/10/2023	41,219	19/11/2023	44,021	19/12/2023	42,501	19/01/2024	46,791
20/06/2023	42,175	20/07/2023	39,761	20/08/2023	43,544	20/09/2023	39,473	20/10/2023	40,745	20/11/2023	41,409	20/12/2023	56,578	20/01/2024	46,104
21/06/2023	41,898	21/07/2023	39,949	21/08/2023	43,369	21/09/2023	40,188	21/10/2023	41,619	21/11/2023	42,871	21/12/2023	48,836	21/01/2024	48,032
22/06/2023	41,407	22/07/2023	41,602	22/08/2023	42,951	22/09/2023	41,292	22/10/2023	41,376	22/11/2023	41,464	22/12/2023	47,869	22/01/2024	44,217
23/06/2023	41,799	23/07/2023	41,918	23/08/2023	42,573	23/09/2023	41,105	23/10/2023	40,764	23/11/2023	42,168	23/12/2023	48,645	23/01/2024	43,979
24/06/2023	41,711	24/07/2023	47,377	24/08/2023	42,852	24/09/2023	40,552	24/10/2023	40,302	24/11/2023	44,683	24/12/2023	52,380	24/01/2024	44,525
25/06/2023	106,720	25/07/2023	43,098	25/08/2023	42,273	25/09/2023	41,970	25/10/2023	39,961	25/11/2023	47,803	25/12/2023	46,878	25/01/2024	43,439
26/06/2023	42,551	26/07/2023	41,158	26/08/2023	42,421	26/09/2023	41,888	26/10/2023	41,081	26/11/2023	47,355	26/12/2023	47,566	26/01/2024	44,088
27/06/2023	41,764	27/07/2023	40,487	27/08/2023	42,576	27/09/2023	41,943	27/10/2023	41,928	27/11/2023	42,226	27/12/2023	48,673	27/01/2024	42,670
28/06/2023	41,369	28/07/2023	40,613	28/08/2023	41,867	28/09/2023	41,346	28/10/2023	80,998	28/11/2023	42,563	28/12/2023	48,958	28/01/2024	44,054
29/06/2023	41,904	29/07/2023	40,995	29/08/2023	41,434	29/09/2023	43,313	29/10/2023	43,465	29/11/2023	47,553	29/12/2023	47,223	29/01/2024	44,635
30/06/2023	41,990	30/07/2023	41,100	30/08/2023	43,037	30/09/2023	42,096	30/10/2023	42,306	30/11/2023	45,789	30/12/2023	47,089	30/01/2024	43,044
		31/07/2023	40,197	31/08/2023	42,940			31/10/2023	41,600			31/12/2023	44,154	31/01/2024	43,552

FLOW MONITORING DATA															
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Location of Monitoring Point: Discharge to ocean outfall tunnel, combined treated effluent from Kincumber and Woy Woy sewage treatment plants								Licence Period: 1 June 2023 - 31 May 2024							
Publishing Date: 18 June 2025															
COMPLIANCE STATUS															
Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 150,000 kilolitres/day															
Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)
01/02/2024	43,312	1/03/2024	38,704	1/04/2024	43,023	1/05/2024	119,171								
2/02/2024	45,190	2/03/2024	44,236	2/04/2024	41,550	2/05/2024	103,875								
3/02/2024	44,570	3/03/2024	43,840	3/04/2024	39,904	3/05/2024	85,071								
4/02/2024	43,874	4/03/2024	42,908	4/04/2024	52,417	4/05/2024	80,661								
5/02/2024	42,517	5/03/2024	45,071	5/04/2024	102,676	5/05/2024	90,246								
6/02/2024	44,120	6/03/2024	43,538	6/04/2024	131,589	6/05/2024	150,634								
7/02/2024	43,597	7/03/2024	42,956	7/04/2024	74,884	7/05/2024	84,865								
8/02/2024	43,998	8/03/2024	45,412	8/04/2024	57,811	8/05/2024	73,974								
9/02/2024	45,094	9/03/2024	45,552	9/04/2024	60,829	9/05/2024	69,304								
10/02/2024	46,661	10/03/2024	44,742	10/04/2024	56,418	10/05/2024	62,039								
11/02/2024	43,292	11/03/2024	43,677	11/04/2024	52,264	11/05/2024	98,118								
12/02/2024	44,205	12/03/2024	42,909	12/04/2024	51,047	12/05/2024	86,711								
13/02/2024	42,968	13/03/2024	42,089	13/04/2024	49,403	13/05/2024	69,300								
14/02/2024	42,313	14/03/2024	42,696	14/04/2024	48,787	14/05/2024	62,609								
15/02/2024	42,850	15/03/2024	43,739	15/04/2024	47,612	15/05/2024	58,735								
16/02/2024	69,297	16/03/2024	42,322	16/04/2024	47,033	16/05/2024	55,971								
17/02/2024	47,923	17/03/2024	44,079	17/04/2024	47,641	17/05/2024	54,276								
18/02/2024	44,965	18/03/2024	42,602	18/04/2024	47,405	18/05/2024	57,604								
19/02/2024	56,798	19/03/2024	42,934	19/04/2024	48,861	19/05/2024	57,381								
20/02/2024	54,634	20/03/2024	41,522	20/04/2024	75,861	20/05/2024	53,746								
21/02/2024	57,911	21/03/2024	40,994	21/04/2024	65,282	21/05/2024	53,153								
22/02/2024	49,463	22/03/2024	41,608	22/04/2024	64,536	22/05/2024	51,789								
23/02/2024	47,863	23/03/2024	42,842	23/04/2024	92,631	23/05/2024	50,037								
24/02/2024	45,895	24/03/2024	38,593	24/04/2024	48,802	24/05/2024	49,725								
25/02/2024	47,686	25/03/2024	42,147	25/04/2024	48,628	25/05/2024	48,791								
26/02/2024	44,859	26/03/2024	43,529	26/04/2024	47,972	26/05/2024	50,285								
27/02/2024	45,134	27/03/2024	38,901	27/04/2024	48,259	27/05/2024	49,360								
28/02/2024	46,059	28/03/2024	39,923	28/04/2024	47,798	28/05/2024	48,038								
29/02/2024	45,479	29/03/2024	43,137	29/04/2024	46,986	29/05/2024	47,473								
		30/03/2024	43,084	30/04/2024	61,939	30/05/2024	47,379								
		31/03/2024	41,323			31/05/2024	46,838								

Summary of non-compliant data				
Date	Parameter	Result	Cause	Action taken
6 May 2024	Flow (greater than 150,000 kL)	150,634 kL	Stormwater inflow	Management of inflow from STP catchment