

POLLUTION MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259
Location of Pollution Monitoring Point: Composite sampling point prior to outlet to sand dune disposal area
Publishing Date: 6 January 2025

EPL No. 2647 – Toukley Sewage Treatment System
Licence Period: 1 January 2024 – 31 December 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)	pH	Total Suspended Solids (TSS) (mg/L)	Ammonia (mg/L)
License Concentration Limits					
50 percentile	-	-	-	-	-
90 percentile	-	10	-	50	-
3DGM	-	15	-	60	-
100 percentile	-	-	6.5 - 8.5	-	-

Pollution Monitoring Data Summary (provided at the end of annual reporting period)

50 percentile	-	-	-	-	-
90 percentile	-	-	-	-	-
3DGM	-	-	-	-	-
100 percentile	-	-	-	-	-

Collected	Obtained	Published	BOD (mg/L)	O&G (mg/L)	pH	TSS (mg/L)	Ammonia
09/01/2024	19/01/2024	24/01/2024	9	<5	7.8	18	16.4
22/01/2024	10/02/2024	15/02/2024	11	<5	7.6	28	11.0
02/02/2024	14/02/2024	19/02/2024	7	<5	7.6	18	18.5
14/02/2024	26/02/2024	04/03/2024	10	<5	7.6	10	22.6
26/02/2024	12/03/2024	17/04/2024	6	<5	7.5	6	17.4
09/03/2024	25/03/2024	30/03/2024	9	<5	7.5	10	19.6
21/03/2024	03/04/2024	08/04/2024	8	<5	7.5	8	23.0
02/04/2024	11/04/2024	16/04/2024	9	<5	7.5	8	22.4
14/04/2024	26/04/2024	01/05/2024	11	<5	7.3	11	11.3
26/04/2024	06/05/2024	13/05/2024	5	<5	7.2	4	7.57
08/05/2024	20/05/2024	25/05/2024	7	<5	7.0	29	5.41
20/05/2024	31/05/2024	04/06/2024	6	<5	7.3	8	6.37
02/06/2024	19/06/2024	24/06/2024	9	<5	7.3	18	8.53
13/06/2024	24/06/2024	28/06/2024	8	<5	7.2	6	6.88
25/06/2024	08/07/2024	13/07/2024	9	<5	7.2	11	5.59
07/07/2024	16/07/2024	21/07/2024	9	<5	7.2	7	5.95
19/07/2024	30/07/2024	04/08/2024	13	<5	7.4	9	19.8
31/07/2024	15/08/2024	20/08/2024	5	<5	7.4	8	11.1
12/08/2024	23/08/2024	28/08/2024	10	<5	7.3	6	11.6
24/08/2024	3/09/2024	09/08/2024	11	<5	7.4	10	19.8
05/09/2024	17/09/2024	24/09/2024	9	<5	7.5	6	15.4
17/09/2024	02/10/2024	08/10/2024	20	<5	7.4	17	12.7
29/09/2024	11/10/2024	16/10/2024	13	<5	7.4	12	14.5
11/10/2024	23/10/2024	30/10/2024	10	<5	7.4	12	15.1
23/10/2024	01/11/2024	08/11/2024	12	<5	7.5	15	13.9
04/11/2024	12/11/2024	17/11/2024	9	<5	7.5	10	13.7
16/11/2024	29/11/2024	05/12/2024	9	<5	7.3	9	23.6
28/11/2024	9/12/2024	14/12/2024	12	<5	7.5	20	23.2
10/12/2024	19/12/2024	24/12/2024	7	<5	7.5	2	20.2
22/12/2024	03/01/2025	08/01/2025	24	<5	7.4	18	4.55

< : 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.

FAECAL COLIFORM & ENTEROCOCCI MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259

EPL No. 2647 – Toukley Sewage Treatment System

Location of Pollution Monitoring Point:

Licence Period: 1 January 2024 – 31 December 2024

Cabbage Tree Bay (Lic Pt 13) and Soldiers Beach (Lic Pt 14)

Publishing Date: 6 January 2025

COMPLIANCE STATUS

The licence does not prescribe concentration limits for faecal coliforms and enterococci

Collected	Obtained	Published	Cabbage Tree Bay		Soldiers Beach	
			Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)
4 January 2024	9 January 2024	15 January 2024	18	~3	2	~1
9 January 2024	15 January 2024	20 January 2024	380	300	390	65
16 January 2024	22 January 2024	27 January 2024	17	~6	45	36
23 January 2024	29 January 2024	4 February 2024	410	83	~65	13
30 January 2024	2 February 2024	7 February 2024	10	~8	47	~3
06 February 2024	10 February 2024	15 February 2024	34	~8	1	~1
08 February 2024	12 February 2024	17 February 2024	390	39	7	~3
13 February 2024	19 February 2024	24 February 2024	4	~4	33	<1
20 February 2024	4 March 2024	9 March 2024	~140	30	~49	320
27 February 2024	4 March 2024	9 March 2024	~12	~9	3	~1
5 March 2024	12 March 2024	17 March 2024	~85	34	5	~5
12 March 2024	18 March 2024	23 March 2024	16	~2	~91	~9
19 March 2024	25 March 2024	30 March 2024	10	3	7	3
21 March 2024	26 March 2024	1 April 2024	48	13	260	170
26 March 2024	2 April 2024	7 April 2024	<1	~1	5	<5
2 April 2024	8 April 2024	15 April 2024	3	~2	32	~2
9 April 2024	12 April 2024	17 April 2024	270	~10	9	~1
16 April 2024	22 April 2024	29 April 2024	6	~3	3	<1
23 April 2024	26 April 2024	1 May 2024	23	~4	35	~1
30 April 2024	7 May 2024	14 May 2024	5	~8	<1	~7
7 May 2024	13 May 2024	20 May 2024	380	~140	8	~1
9 May 2024	13 May 2024	20 May 2024	~77	13	7	~2
14 May 2024	17 May 2024	23 May 2024	10	<1	6	<1
21 May 2024	27 May 2024	2 June 2024	220	31	1	<1
28 May 2024	31 May 2024	4 June 2024	~45	~6	1	<1
4 June 2024	11 June 2024	17 June 2024	32	31	5	~4
11 June 2024	17 June 2024	24 June 2024	28	~6	9	~2
18 June 2024	21 June 2024	26 June 2024	49	~6	6	~6
25 June 2024	1 July 2024	6 July 2024	3	~5	3	<1
2 July 2024	5 July 2024	10 July 2024	410	290	14	16
9 July 2024	12 July 2024	17 July 2024	18	34	10	~5
16 July 2024	19 July 2024	24 July 2024	9	~2	<1	<1
23 July 2024	26 July 2024	31 July 2024	10	~9	1	<1
30 July 2024	2 August 2024	7 August 2024	52	23	6	19
6 August 2024	9 August 2024	15 August 2024	23	53	1	<1
13 August 2024	16 August 2024	21 August 2024	<1	<1	6	~4
20 August 2024	23 August 2024	28 August 2024	11	~3	6	~1
27 August 2024	30 August 2024	5 September 2024	15	<1	2	<1
29 August 2024	3 September 2024	9 September 2024	1	<1	<1	~1
3 September 2024	9 September 2024	16 September 2024	200	10	4	~2
5 September 2024	10 September 2024	16 September 2024	1	~2	17	<1
10 September 2024	13 September 2024	18 September 2024	2	~3	3	<1
17 September 2024	23 September 2024	28 September 2024	57	40	2	~2
24 September 2024	27 September 2024	2 October 2024	31	29	6	~2
1 October 2024	4 October 2024	9 October 2024	35	~4	<1	<1
8 October 2024	11 October 2024	16 October 2024	6	~2	<1	<1
15 October 2024	18 October 2024	23 October 2024	~1800	~3500	9	~5
22 October 2024	25 October 2024	30 October 2024	~91	~8	2	~3
29 October 2024	01 November 2024	08 November 2024	~91	17	54	1
5 November 2024	11 November 2024	16 November 2024	5	~2	2	<1
7 November 2024	12 November 2024	17 November 2024	3	~6	13	~1
12 November 2024	15 November 2024	20 November 2024	~3600	~4300	~63	~95
19 November 2024	22 November 2024	27 November 2024	25	16	3	~2
26 November 2024	30 November 2024	04 December 2024	12	~2	26	~1
03 December 2024	09 December 2024	12 December 2024	~80	15	10	<1
10 December 2024	13 December 2024	18 December 2024	22	~3	6	~2
17 December 2024	20 December 2024	24 December 2024	4	~7	25	~1
23 December 2024	28 December 2024	02 January 2025	7	~6	<1	~2
30 December 2024	1 January 2025	06 January 2025	13	29	4	~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 20 Wyong NSW 2259

EPL No. 2647 – Toukley Sewage Treatment System

Location of Pollution Monitoring Point: Composite sampling point prior to outlet to sand dune disposal area

Licence Period: 1 January 2024 – 31 December 2024

Publishing Date: 6 January 2025

COMPLIANCE STATUS

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

	Aldrin	Arsenic	Cadmium	Chlordane (cis & trans)	Chromium	Copper	Dieldrin	Endosulfan	Endrin	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Lead	Mercury	Methoxychlor	Nickel	Selenium	Silver	Zinc	alpha-BHC	beta-BHC	gamma-BHC (lindane)	p,p-DDD	p,p-DDE	p,p-DDT	PCBs
Unit	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	µg/L	µg/L	µg/L
No. Samples Collected	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Minimum value																										
Mean value																										
Median value																										
Maximum value																										
Limit of laboratory detection	0.01	0.1	0.1	0.01	0.2	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.1	0.3	0.01	0.1	0.2	0.1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.1

POLLUTION MONITORING DATA RESULTS

Collected	Obtained	Published	Aldrin	Arsenic	Cadmium	Chlordane (cis & trans)	Chromium	Copper	Dieldrin	Endosulfan	Endrin	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Lead	Mercury	Methoxychlor	Nickel	Selenium	Silver	Zinc	alpha-BHC	beta-BHC	gamma-BHC (lindane)	p,p-DDD	p,p-DDE	p,p-DDT	PCBs	
22/01/2024	02/02/2024	15/02/2024	<0.01	0.7	<0.1	<0.01	0.7	5.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.3	<0.01	1.6	<0.2	0.1	19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
02/04/2024	11/04/2024	16/04/2024	<0.01	0.6	<0.1	<0.01	0.3	3.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.7	0.3	0.3	14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
25/06/2024	08/07/2024	13/07/2024	<0.01	1.2	<0.1	<0.01	0.5	3.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.3	<0.2	<0.1	17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
17/09/2024	02/10/2024	08/10/2024	<0.01	0.6	<0.1	<0.01	0.4	5.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.6	0.2	<0.1	19	<0.01	<0.01	<0.01	<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 20 Wyong NSW 2259
Location of Pollution Monitoring Point Calculated from a number flow meter monitoring points as specified in EPL 2647
Publishing Date: 6 January 2025

EPL No. 2647 – Toukley Sewage Treatment System
Licence Period: 1 January 2024 – 31 December 2024

COMPLIANCE STATUS

Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 60,000 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)
1/01/2024	25,886	1/02/2024	23,512	1/03/2024	27,109	1/04/2024	21,096	1/05/2024	67,873	1/06/2024	55,331	1/07/2024	39,635	1/08/2024	36,438
2/01/2024	27,462	2/02/2024	22,949	2/03/2024	27,909	2/04/2024	24,040	2/05/2024	56,733	2/06/2024	58,519	2/07/2024	44,626	2/08/2024	32,274
3/01/2024	23,677	3/02/2024	22,196	3/03/2024	23,016	3/04/2024	26,487	3/05/2024	46,190	3/06/2024	44,228	3/07/2024	42,582	3/08/2024	29,061
4/01/2024	13,353	4/02/2024	21,664	4/03/2024	29,433	4/04/2024	43,353	4/05/2024	53,372	4/06/2024	43,787	4/07/2024	42,864	4/08/2024	21,446
5/01/2024	8,392	5/02/2024	15,741	5/03/2024	28,062	5/04/2024	57,228	5/05/2024	60,395	5/06/2024	42,446	5/07/2024	41,540	5/08/2024	31,909
6/01/2024	21,885	6/02/2024	15,349	6/03/2024	19,453	6/04/2024	65,244	6/05/2024	82,393	6/06/2024	45,550	6/07/2024	39,390	6/08/2024	36,954
7/01/2024	23,496	7/02/2024	15,675	7/03/2024	20,235	7/04/2024	46,136	7/05/2024	65,238	7/06/2024	44,113	7/07/2024	38,947	7/08/2024	23,873
8/01/2024	25,147	8/02/2024	20,231	8/03/2024	23,402	8/04/2024	43,218	8/05/2024	58,025	8/06/2024	43,451	8/07/2024	39,422	8/08/2024	19,847
9/01/2024	29,411	9/02/2024	24,497	9/03/2024	24,012	9/04/2024	42,808	9/05/2024	45,575	9/06/2024	42,845	9/07/2024	40,372	9/08/2024	16,970
10/01/2024	21,050	10/02/2024	24,938	10/03/2024	23,470	10/04/2024	40,088	10/05/2024	44,403	10/06/2024	42,824	10/07/2024	38,606	10/08/2024	18,611
11/01/2024	12,262	11/02/2024	23,370	11/03/2024	25,419	11/04/2024	35,717	11/05/2024	50,474	11/06/2024	41,584	11/07/2024	32,207	11/08/2024	32,713
12/01/2024	24,936	12/02/2024	23,022	12/03/2024	26,633	12/04/2024	41,376	12/05/2024	47,243	12/06/2024	40,856	12/07/2024	37,830	12/08/2024	33,335
13/01/2024	35,744	13/02/2024	22,843	13/03/2024	27,622	13/04/2024	41,321	13/05/2024	45,695	13/06/2024	41,204	13/07/2024	37,370	13/08/2024	32,213
14/01/2024	37,759	14/02/2024	23,491	14/03/2024	25,400	14/04/2024	38,848	14/05/2024	44,279	14/06/2024	42,334	14/07/2024	38,062	14/08/2024	34,091
15/01/2024	29,779	15/02/2024	26,140	15/03/2024	26,750	15/04/2024	37,209	15/05/2024	42,273	15/06/2024	46,734	15/07/2024	37,720	15/08/2024	35,787
16/01/2024	19,547	16/02/2024	43,782	16/03/2024	26,160	16/04/2024	37,905	16/05/2024	43,039	16/06/2024	43,968	16/07/2024	37,801	16/08/2024	34,814
17/01/2024	29,877	17/02/2024	29,628	17/03/2024	24,390	17/04/2024	40,349	17/05/2024	42,287	17/06/2024	42,358	17/07/2024	21,731	17/08/2024	33,664
18/01/2024	32,036	18/02/2024	31,810	18/03/2024	23,736	18/04/2024	32,466	18/05/2024	48,494	18/06/2024	41,692	18/07/2024	20,994	18/08/2024	33,060
19/01/2024	31,858	19/02/2024	32,202	19/03/2024	24,960	19/04/2024	39,301	19/05/2024	47,521	19/06/2024	41,253	19/07/2024	32,139	19/08/2024	22,012
20/01/2024	30,848	20/02/2024	37,764	20/03/2024	23,758	20/04/2024	73,342	20/05/2024	44,249	20/06/2024	41,516	20/07/2024	36,695	20/08/2024	17,660
21/01/2024	28,588	21/02/2024	38,135	21/03/2024	23,702	21/04/2024	61,793	21/05/2024	44,320	21/06/2024	39,151	21/07/2024	36,903	21/08/2024	31,197
22/01/2024	12,938	22/02/2024	33,282	22/03/2024	21,725	22/04/2024	45,961	22/05/2024	44,225	22/06/2024	38,128	22/07/2024	36,884	22/08/2024	34,928
23/01/2024	18,118	23/02/2024	31,700	23/03/2024	23,645	23/04/2024	44,391	23/05/2024	42,677	23/06/2024	39,978	23/07/2024	36,862	23/08/2024	35,609
24/01/2024	24,214	24/02/2024	31,642	24/03/2024	23,758	24/04/2024	42,307	24/05/2024	41,469	24/06/2024	40,347	24/07/2024	35,475	24/08/2024	35,082
25/01/2024	25,763	25/02/2024	30,310	25/03/2024	22,130	25/04/2024	42,057	25/05/2024	42,523	25/06/2024	41,564	25/07/2024	29,533	25/08/2024	17,437
26/01/2024	25,029	26/02/2024	29,734	26/03/2024	22,127	26/04/2024	41,619	26/05/2024	41,668	26/06/2024	41,021	26/07/2024	32,965	26/08/2024	17,728
27/01/2024	25,266	27/02/2024	30,435	27/03/2024	23,362	27/04/2024	41,475	27/05/2024	41,683	27/06/2024	40,280	27/07/2024	20,614	27/08/2024	30,856
28/01/2024	25,875	28/02/2024	31,567	28/03/2024	23,355	28/04/2024	41,687	28/05/2024	40,617	28/06/2024	40,982	28/07/2024	23,958	28/08/2024	34,784
29/01/2024	23,875	29/02/2024	28,904	29/03/2024	21,387	29/04/2024	41,206	29/05/2024	40,799	29/06/2024	40,002	29/07/2024	36,700	29/08/2024	32,491
30/01/2024	24,015			30/03/2024	22,203	30/04/2024	53,295	30/05/2024	40,922	30/06/2024	41,088	30/07/2024	36,885	30/08/2024	30,248
31/01/2024	23,584			31/03/2024	23,019			31/05/2024	40,905			31/07/2024	37,138	31/08/2024	19,599

EPL No 2647 - Summary of non-compliant data				
Date	Parameter	Result	Cause	Action taken
5 April 2024	Flow (greater than 60,000 kL)	65,244 kL	Stormwater inflow	Management of inflow from STP catchment
20 April 2024	Flow (greater than 60,000 kL)	73,342 kL	Stormwater inflow	Management of inflow from STP catchment
21 April 2024	Flow (greater than 60,000 kL)	61,793 kL	Stormwater inflow	Management of inflow from STP catchment
1 May 2024	Flow (greater than 60,000 kL)	67,873 kL	Stormwater inflow	Management of inflow from STP catchment
5 May 2024	Flow (greater than 60,000 kL)	60,395 kL	Stormwater inflow	Management of inflow from STP catchment
6 May 2024	Flow (greater than 60,000 kL)	82,393 kL	Stormwater inflow	Management of inflow from STP catchment
7 May 2024	Flow (greater than 60,000 kL)	65,238 kL	Stormwater inflow	Management of inflow from STP catchment