

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 2023 – 31 December 2023

Publishing Date: 5 February 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
11/01/2023	20/01/2023	31/01/2023	22	<5	7.6	12	20
24/01/2023	07/02/2023	13/02/2023	20	<5	7.5	19	30.3
04/02/2023	17/02/2023	28/02/2023	16	<5	7.5	25	21.3
16/02/2023	27/02/2023	5/02/2023	8	<5	7.5	10	17.8
28/02/2023	9/03/2023	18/03/2023	19	<5	7.5	26	16.6
12/03/2023	23/03/2023	5/04/2023	15	<5	7.5	22	18.8
24/03/2023	03/04/2023	8/04/2023	17	<5	7.8	24	16.8
05/04/2023	14/04/2023	20/04/2023	8	<5	7.6	8	8.35
17/04/2023	10/05/2023	15/05/2023	6	<5	7.7	10	13.80
29/04/2023	9/05/2023	15/05/2023	19	<5	7.5	8	11.30
11/05/2023	18/05/2023	23/05/2023	20	<5	7.4	14	23.4
23/05/2023	02/06/2023	07/06/2023	20	<5	7.5	14	14.2
4/06/2023	14/06/2023	21/06/2023	19	<5	7.5	14	15.8
16/06/2023	26/06/2023	03/06/2023	9	<5	7.4	7	10.9
28/06/2023	14/07/2023	20/07/2023	19	<5	7.4	10	15.6
10/07/2023	19/07/2023	24/07/2023	21	<5	7.3	37	9.12
22/07/2023	02/08/2023	07/08/2023	8	<5	7.4	11	18.9
03/08/2023	11/08/2023	16/08/2023	37	<5	7.4	35	13.9
15/08/2023	24/08/2023	29/08/2023	22	<5	7.3	83	15.8
29/08/2023	11/09/2023	16/09/2023	17	<5	7.4	18	34.6
08/09/2023	18/09/2023	24/09/2023	26	<5	7.4	22	24.1
20/09/2023	9/10/2023	15/10/2023	49	<5	7.4	69	22.5
3/10/2023	12/10/2023	18/10/2023	35	<5	7.3	15	37.7
14/10/2023	27/10/2023	06/11/2023	9	<5	7.6	7	17.4
26/10/2023	03/11/2023	08/11/2023	8	<5	7.6	16	18.9
07/11/2023	21/11/2023	26/11/2023	6	<5	7.5	6	11.0
20/11/2023	28/11/2023	04/12/2023	12	<5	7.5	6	31.7
04/12/2023	18/12/2023	25/12/2023	13	<5	7.5	14	40.1
15/12/2023	27/12/2023	03/01/2024	16	<5	7.7	33	21.6
28/12/2023	10/01/2024	15/01/2024	10	<5	7.8	19	17.9

< : 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 2023 – 31 December 2023

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

Publishing Date: 5 February 2024

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)
03 January 2023	09 January 2023	31 January 2023	28	~3	2	~1
10 January 2023	13 January 2023	31 January 2023	12	2	0	0
17 January 2023	20 January 2023	31 January 2023	130	59	2	1
24 January 2023	30 January 2023	31 January 2023	15	5	<1	<1
07 February 2023	10 February 2023	13 February 2023	42	40	25	~1
14 February 2023	17 February 2023	28 February 2023	200	36	47	~10
21 February 2023	27 February 2023	5 March 2023	2	~2	17	~2
28 February 2023	7 March 2023	12 March 2023	14	~8	<1	~2
7 March 2023	13 March 2023	18 March 2023	<1	~8	15	~5
9 March 2023	13 March 2023	18 March 2023	2	~8	12	30
14 March 2023	17 March 2023	5 April 2023	~1100	950	54	27
21 March 2023	24 March 2023	5 April 2023	~85	12	1	<1
28 March 2023	31 March 2023	8 April 2023	~140	25	<1	<1
4 April 2023	11 April 2023	16 April 2023	~1100	980	8	~1
11 April 2023	14 April 2023	20 April 2023	~80	15	6	11
18 April 2023	24 April 2023	29 April 2023	32	10	1	~2
20 April 2023	24 April 2023	29 April 2023	370	~1200	9	~6
27 April 2023	2 May 2023	7 May 2023	1	~1	16	<1
2 May 2023	5 May 2023	10 May 2023	8	~6	22	~2
9 May 2023	15 May 2023	20 May 2023	420	190	26	39
16 May 2023	24 May 2023	30 May 2023	6	~6	7	~1
23 May 2023	26 May 2023	30 May 2023	~82	12	<1	~1
30 May 2023	2 June 2023	7 May 2023	15	~4	1	~1
6 June 2023	8 June 2023	15 June 2023	32	34	38	~7
8 June 2023	10 June 2023	17 June 2023	<1	<1	10	<1
13 June 2023	15 June 2023	20 June 2023	2	<1	14	~1
20 June 2023	26 June 2023	3 July 2023	<1	~1	14	~1
27 June 2023	30 June 2023	24 July 2023	<1	~8	<1	<1
4 July 2023	7 July 2023	24 July 2023	54	47	30	~4
6 July 2023	11 July 2023	24 July 2023	3	~11	5	~4
11 July 2023	14 July 2023	24 July 2023	8	10	<1	~2
18 July 2023	21 July 2023	29 July 2023	10	12	3	~1
25 July 2023	27 July 2023	4 August 2023	1	<1	11	<1
1 August 2023	4 August 2023	9 August 2023	<1	<1	<1	<1
8 August 2023	11 August 2023	16 August 2023	<1	<1	5	~3
15 August 2023	21 August 2023	26 August 2023	18	20	4	~3
22 August 2023	1 September 2023	6 September 2023	6	<1	<1	<1
29 August 2023	1 September 2023	6 September 2023	6	10	3	<1
5 September 2023	11 September 2023	16 September 2023	<1	2	4	1
7 September 2023	11 September 2023	16 September 2023	<1	<1	4	1
12 September 2023	15 September 2023	20 September 2023	<1	6	<1	<1
19 September 2023	25 September 2023	30 September 2023	1	1	1	<1
26 September 2023	29 September 2023	4 October 2023	2	12	2	<1
3 October 2023	6 October 2023	11 October 2023	2	~1	6	<1
10 October 2023	13 October 2023	18 October 2023	<1	~3	2	<1
17 October 2023	23 October 2023	28 October 2023	<1	~1	6	~6
24 October 2023	27 October 2023	1 November 2023	2	~3	3	~1
31 October 2023	3 November 2023	8 November 2023	5	<1	3	<1
7 November 2023	14 November 2023	20 November 2023	20	27	2	<1
9 November 2023	14 November 2023	20 November 2023	45	26	~62	~7
14 November 2023	17 November 2023	23 November 2023	16	~9	31	~2
21 November 2023	27 November 2023	4 December 2023	<1	<1	~64	~2
28 November	4 December 2023	11 December 2023	11	~6	25	~6
5 December 2023	8 December 2023	13 December 2023	2	<1	1	~1
7 December 2023	11 December 2023	18 December 2023	43	~4	<1	<1
14 December 2023	19 December 2023	27 December 2023	~74	18	36	~1
21 December 2023	27 December 2023	3 January 2024	28	~5	<1	<1
28 December 2023	3 January 2024	8 January 2024	~110	~6	14	~3

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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 2023 – 31 December 2023

Publishing Date: 5 February 2024

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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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	
23/01/2023	07/02/2023	13/02/2023	<0.01	0.7	<0.1	<0.01	0.6	4.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.8	0.2	<0.1	18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
17/04/2023	10/02/2023	15/04/2023	<0.01	0.6	<0.1	<0.01	0.2	4.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.3	<0.01	1.4	<0.2	<0.1	17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
28/06/2023	14/07/2023	24/07/2023	<0.01	1.0	<0.1	<0.01	0.4	4.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.6	0.3	<0.1	19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
20/09/2023	09/10/2023	18/10/2023	<0.01	0.4	<0.1	<0.01	0.6	6.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	2.4	<0.2	0.5	21	<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: 5 February 2024

EPL No. 2647 – Toukley Sewage Treatment System

Licence Period: 1 January 2023 – 31 December 2023

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)
01/01/2023	28,410	1/02/2023	23,287	1/03/2023	28,381	1/04/2023	30,383	1/05/2023	41,736	1/06/2023	19,110	1/07/2023	27,667	1/08/2023	29,069
02/01/2023	26,414	2/02/2023	18,147	2/03/2023	30,720	2/04/2023	33,113	2/05/2023	40,469	2/06/2023	25,158	2/07/2023	26,813	2/08/2023	27,130
03/01/2023	26,693	3/02/2023	20,542	3/03/2023	22,860	3/04/2023	37,006	3/05/2023	40,257	3/06/2023	29,665	3/07/2023	27,452	3/08/2023	15,715
04/01/2023	27,458	4/02/2023	27,126	4/03/2023	17,251	4/04/2023	30,269	4/05/2023	41,115	4/06/2023	29,584	4/07/2023	27,550	4/08/2023	21,693
05/01/2023	30,009	5/02/2023	25,961	5/03/2023	15,314	5/04/2023	24,612	5/05/2023	27,470	5/06/2023	25,888	5/07/2023	28,327	5/08/2023	27,767
06/01/2023	27,967	6/02/2023	27,015	6/03/2023	12,033	6/04/2023	23,394	6/05/2023	19,530	6/06/2023	21,199	6/07/2023	26,680	6/08/2023	33,970
07/01/2023	31,401	7/02/2023	19,624	7/03/2023	20,598	7/04/2023	27,341	7/05/2023	17,883	7/06/2023	17,934	7/07/2023	28,208	7/08/2023	30,463
08/01/2023	30,305	8/02/2023	15,512	8/03/2023	27,999	8/04/2023	31,002	8/05/2023	11,071	8/06/2023	17,694	8/07/2023	26,545	8/08/2023	29,710
09/01/2023	30,295	9/02/2023	16,408	9/03/2023	28,174	9/04/2023	29,477	9/05/2023	6,102	9/06/2023	23,004	9/07/2023	18,923	9/08/2023	29,704
10/01/2023	28,760	10/02/2023	34,760	10/03/2023	29,018	10/04/2023	30,761	10/05/2023	10,640	10/06/2023	28,235	10/07/2023	15,869	10/08/2023	29,440
11/01/2023	29,961	11/02/2023	33,533	11/03/2023	27,994	11/04/2023	30,001	11/05/2023	23,794	11/06/2023	27,525	11/07/2023	14,954	11/08/2023	29,166
12/01/2023	26,673	12/02/2023	30,393	12/03/2023	28,533	12/04/2023	29,313	12/05/2023	37,430	12/06/2023	28,885	12/07/2023	20,022	12/08/2023	27,688
13/01/2023	27,275	13/02/2023	28,542	13/03/2023	28,419	13/04/2023	21,325	13/05/2023	37,355	13/06/2023	26,232	13/07/2023	26,902	13/08/2023	28,000
14/01/2023	24,303	14/02/2023	30,092	14/03/2023	23,649	14/04/2023	31,434	14/05/2023	34,626	14/06/2023	28,012	14/07/2023	27,985	14/08/2023	34,126
15/01/2023	22,467	15/02/2023	29,564	15/03/2023	17,954	15/04/2023	33,529	15/05/2023	36,916	15/06/2023	22,434	15/07/2023	27,338	15/08/2023	34,053
16/01/2023	14,948	16/02/2023	30,935	16/03/2023	15,009	16/04/2023	30,532	16/05/2023	37,570	16/06/2023	22,013	16/07/2023	32,256	16/08/2023	30,129
17/01/2023	13,135	17/02/2023	27,011	17/03/2023	15,272	17/04/2023	31,087	17/05/2023	34,414	17/06/2023	27,791	17/07/2023	30,630	17/08/2023	30,188
18/01/2023	16,052	18/02/2023	26,673	18/03/2023	16,421	18/04/2023	29,881	18/05/2023	31,210	18/06/2023	27,716	18/07/2023	30,043	18/08/2023	29,303
19/01/2023	15,228	19/02/2023	17,968	19/03/2023	15,066	19/04/2023	30,336	19/05/2023	36,978	19/06/2023	28,391	19/07/2023	29,769	19/08/2023	28,988
20/01/2023	27,230	20/02/2023	23,053	20/03/2023	21,710	20/04/2023	35,960	20/05/2023	35,006	20/06/2023	25,189	20/07/2023	28,778	20/08/2023	28,618
21/01/2023	27,998	21/02/2023	31,083	21/03/2023	35,200	21/04/2023	28,179	21/05/2023	35,584	21/06/2023	16,242	21/07/2023	27,748	21/08/2023	21,341
22/01/2023	31,476	22/02/2023	45,124	22/03/2023	41,471	22/04/2023	19,401	22/05/2023	34,590	22/06/2023	16,390	22/07/2023	29,307	22/08/2023	7,777
23/01/2023	27,319	23/02/2023	39,632	23/03/2023	40,665	23/04/2023	20,721	23/05/2023	30,588	23/06/2023	22,646	23/07/2023	28,265	23/08/2023	5,066
24/01/2023	29,234	24/02/2023	34,731	24/03/2023	38,393	24/04/2023	17,413	24/05/2023	29,502	24/06/2023	28,558	24/07/2023	31,075	24/08/2023	6,053
25/01/2023	28,225	25/02/2023	30,904	25/03/2023	40,688	25/04/2023	19,869	25/05/2023	28,855	25/06/2023	27,240	25/07/2023	19,031	25/08/2023	12,139
26/01/2023	27,975	26/02/2023	32,703	26/03/2023	36,670	26/04/2023	19,226	26/05/2023	35,663	26/06/2023	26,284	26/07/2023	22,928	26/08/2023	18,215
27/01/2023	31,369	27/02/2023	26,360	27/03/2023	37,038	27/04/2023	19,043	27/05/2023	37,624	27/06/2023	22,540	27/07/2023	29,013	27/08/2023	17,444
28/01/2023	27,259	28/02/2023	32,333	28/03/2023	39,151	28/04/2023	35,376	28/05/2023	31,058	28/06/2023	15,980	28/07/2023	29,288	28/08/2023	18,539
29/01/2023	27,557			29/03/2023	37,596	29/04/2023	40,385	29/05/2023	30,733	29/06/2023	23,632	29/07/2023	28,967	29/08/2023	25,250
30/01/2023	31,819			30/03/2023	36,363	30/04/2023	41,164	30/05/2023	29,960	30/06/2023	28,148	30/07/2023	28,113	30/08/2023	29,050
31/01/2023	33,177			31/03/2023	32,865			31/05/2023	26,576			31/07/2023	28,760	31/08/2023	29,565

