

## POLLUTION MONITORING DATA

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

**EPL No. 1942** – Bateau Bay Sewage Treatment System

**Location of Pollution Monitoring Point:** Inlet channel to the chlorine contact tank

**Licence Period:** 1 January 2024 – 31 December 2024

**Publishing Date:** 8 October 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)	Ammonia (mg/L)
<b>License Concentration Limits</b>					
<b>100 percentile</b>	30	10	6.5 - 8.5	50	30

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

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	6	<5	7.6	2	19.1
21/01/2024	02/02/2024	15/02/2024	6	<5	7.1	<2	2.3
02/02/2024	14/02/2024	19/02/2024	5	<5	7.2	7	5.6
14/02/2024	26/02/2024	04/03/2024	9	<5	7.1	17	6.2
26/02/2024	12/03/2024	17/03/2024	6	<5	7.1	6	2.3
09/03/2024	25/03/2024	30/03/2024	3	<5	7.1	5	3.3
21/03/2024	04/04/2024	09/04/2024	5	<5	6.9	8	3.0
02/04/2024	11/04/2024	16/04/2024	11	<5	7.5	4	16.5
14/04/2024	26/04/2024	1/05/2024	3	<5	7.4	2	2.14
26/04/2024	06/05/2024	13/05/2024	5	<5	7.1	5	3.15
08/05/2024	20/05/2024	25/05/2024	4	<5	7.0	4	1.08
20/05/2024	31/05/2024	4/06/2024	3	<5	7.1	2	0.98
02/06/2024	19/06/2024	24/06/2024	14	<5	7.1	7	3.22
13/06/2024	24/06/2024	28/06/2024	8	<5	7.1	2	4.0
25/06/2024	08/07/2024	13/07/2024	11	<5	7.0	4	4.3
07/07/2024	16/07/2024	21/07/2024	5	<5	7.0	3	1.6
19/07/2024	30/07/2024	04/08/2024	7	<5	7.3	<2	6.20
31/07/2024	15/08/2024	20/08/2024	2	<5	7.2	2	6.26
12/08/2024	23/08/2024	28/08/2024	11	<5	6.9	3	5.05
24/08/2024	03/09/2024	08/09/2024	6	<5	7.0	2	6.02
05/09/2024	17/09/2024	24/09/2024	12	<5	7.2	3	8.58
17/09/2024	02/10/2024	08/10/2024	7	<5	7.2	2	8.8

< : 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. 1942** – Bateau Bay Sewage Treatment System

**Location of Pollution Monitoring Point:**

**Licence Period:** 1 January 2024 – 31 December 2024

Shelly Beach (Lic Pt 5), Toowoan Bay (Lic Pt 6), Blue Bay (Lic Pt 7) and Blue Lagoon (Lic Pt 8)

**Publishing Date:** 8 October 2024

**COMPLIANCE STATUS**

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

Collected	Obtained	Published	Shelly Beach		Toowoan Bay		Blue Bay		Blue Lagoon	
			Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	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	7	<1	7	<2	3	<1	4	27
9 January 2024	15 January 2024	20 January 2024	<71	26	420	230	14	11	<120	54
16 January 2024	22 January 2024	27 January 2024	3	<2	6	<3	1	<1	12	<4
23 January 2024	29 January 2024	4 February 2024	<44	61	<67	100	34	42	16	11
30 January 2024	2 February 2024	7 February 2024	5	<1	2	57	<1	<2	6	<1
6 February 2024	10 February 2024	15 February 2024	7	<1	49	26	5	<1	15	<7
8 February 2024	12 February 2024	17 February 2024	18	24	25	22	7	<1	14	19
13 February 2024	19 February 2024	24 February 2024	<1	<1	6	<3	<1	<1	<1	<1
20 February 2024	4 March 2024	9 March 2024	12	<9	<370	53	10	<9	24	14
27 February 2024	4 March 2024	9 March 2024	<1	<3	2	<1	3	<3	1	<3
5 March 2024	12 March 2024	17 March 2024	10	12	<210	170	16	<10	6	13
12 March 2024	18 March 2024	23 March 2024	<5200	43	5	<3	1	<1	3	46
19 March 2024	25 March 2024	30 March 2024	0	0	1	0	0	1	0	4
21 March 2024	26 March 2024	1 April 2024	8	<8	33	13	27	13	8	<9
26 March 2024	2 April 2024	7 April 2024	1	<1	26	<1	<1	<1	2	86
2 April 2024	8 April 2024	15 April 2024	7	<1	2	<2	3	<1	1	<7
9 April 2024	12 April 2024	17 April 2024	<1000	65	39	11	26	<5	27	<5
16 April 2024	22 April 2024	29 April 2024	1	<1	7	<1	1	<1	2	<1
23 April 2024	26 April 2024	1 May 2024	<1	<1	3	<2	4	<5	3	<1
30 April 2024	7 May 2024	14 May 2024	<2	<1	<1	3	<2	1	<1	<1
7 May 2024	13 May 2024	20 May 2024	<59	10	33	51	22	11	40	<7
9 May 2024	13 May 2024	20 May 2024	5	<1	17	<6	21	<6	1	<1
14 May 2024	17 May 2024	24 May 2024	1	<1	1	<3	2	<1	<1	<1
21 May 2024	27 May 2024	3 June 2024	<1	<1	12	<1	<1	<1	<1	<1
28 May 2024	31 May 2024	4 June 2024	4	<1	5	<3	4	<4	4	<1
4 June 2024	11 June 2024	17 June 2024	6	<3	9	10	6	<3	2	<1
11 June 2024	17 June 2024	24 June 2024	11	<1	6	<4	1	<1	3	<1
18 June 2024	21 June 2024	26 June 2024	4	<6	2	<3	6	<8	5	<1
25 June 2024	1 July 2024	6 July 2024	<1	<5	1	<1	<1	<1	9	<1
2 July 2024	5 July 2024	10 July 2024	<1	<1	15	<6	9	<5	<1	<1
9 July 2024	12 July 2024	17 July 2024	<1	<1	1	<1	1	<1	<1	<1
16 July 2024	19 July 2024	24 July 2024	<1	<1	<1	<1	1	<1	<1	<1
23 July 2024	26 July 2024	31 July 2024	2	<7	1	<1	<1	<1	<1	<1
30 July 2024	2 August 2024	7 August 2024	24	28	15	<14	19	23	13	<7
6 August 2024	9 August 2024	15 August 2024	<1	<1	<1	<1	<1	<1	1	<1
13 August 2024	16 August 2024	21 August 2024	4	<8	<1	<1	<1	<1	3	<2
20 August 2024	23 August 2024	28 August 2024	6	<3	20	<8	6	<1	<1	<1
27 August 2024	30 August 2024	5 September 2024	1	<1	2	<1	<1	<1	<1	<1
29 August 2024	3 September 2024	9 September 2024	2	<1	<1	<1	<1	<1	20	<1
3 September 2024	9 September 2024	16 September 2024	5	<2	5	<6	<1	<1	<1	<2
5 September 2024	10 September 2024	16 September 2024	2	<1	<1	<3	<1	<1	<1	<1
10 September 2024	13 September 2024	18 September 2024	<1	<1	<1	<1	1	<1	<1	<1
17 September 2024	23 September 2024	25 September 2024	<1	<2	6	<7	4	<4	<1	13
24 September 2024	27 September 2024	2 October 2024	<1	<1	1	<1	1	<1	<1	<1
1 October 2024	4 October 2024	9 October 2024	1	<1	<1	<1	<1	<1	<1	<1

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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. 1942** – Bateau Bay 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 2024

**Publishing Date:** 8 October 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
<b>Unit</b>	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
<b>No. Samples Collected</b>	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
<b>Minimum value</b>																										
<b>Mean value</b>																										
<b>Median value</b>																										
<b>Maximum value</b>																										
<b>Limit of laboratory detection</b>	0.01	0.2	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	0.2	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
21/01/2024	02/02/2024	15/02/2024	<0.01	1.6	<0.1	<0.01	0.7	12.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.3	<0.01	1.6	<0.2	0.2	39	<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	0.5	<0.1	<0.01	0.6	11.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.9	0.2	0.3	29	<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	0.6	12.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.5	0.2	<0.1	33	<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	0.7	<0.1	<0.01	0.6	12.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.3	<0.01	1.7	0.2	<0.1	35	<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

EPL No. 1942 – Bateau Bay Sewage Treatment System

Location of Pollution Monitoring Point Calculated from a number flow meter monitoring points as specified in EPL 1942

Licence Period: 1 January 2023 – 31 December 2024

Publishing Date: 8 October 2024

**COMPLIANCE STATUS**

Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 36,000 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	7,267	1/02/2024	5,775	1/03/2024	6,652	1/04/2024	6,543	1/05/2024	30,665	1/06/2024	23,584	1/07/2024	9,130	1/08/2024	7,378
2/01/2024	7,545	2/02/2024	6,026	2/03/2024	6,711	2/04/2024	5,870	2/05/2024	23,298	2/06/2024	35,046	2/07/2024	13,241	2/08/2024	7,310
3/01/2024	7,141	3/02/2024	6,109	3/03/2024	6,787	3/04/2024	6,147	3/05/2024	13,770	3/06/2024	13,573	3/07/2024	12,671	3/08/2024	7,767
4/01/2024	6,991	4/02/2024	6,581	4/03/2024	5,980	4/04/2024	23,981	4/05/2024	16,558	4/06/2024	11,083	4/07/2024	12,750	4/08/2024	7,670
5/01/2024	6,587	5/02/2024	5,662	5/03/2024	5,957	5/04/2024	42,263	5/05/2024	22,536	5/06/2024	9,973	5/07/2024	10,674	5/08/2024	7,312
6/01/2024	6,918	6/02/2024	5,503	6/03/2024	5,836	6/04/2024	38,434	6/05/2024	42,758	6/06/2024	16,620	6/07/2024	10,984	6/08/2024	7,356
7/01/2024	6,860	7/02/2024	6,337	7/03/2024	6,020	7/04/2024	20,670	7/05/2024	30,278	7/06/2024	14,032	7/07/2024	9,725	7/08/2024	7,099
8/01/2024	6,517	8/02/2024	6,336	8/03/2024	5,940	8/04/2024	10,765	8/05/2024	20,182	8/06/2024	11,296	8/07/2024	10,004	8/08/2024	7,074
9/01/2024	6,421	9/02/2024	5,952	9/03/2024	6,352	9/04/2024	9,751	9/05/2024	15,463	9/06/2024	10,165	9/07/2024	10,642	9/08/2024	6,985
10/01/2024	6,356	10/02/2024	6,495	10/03/2024	6,415	10/04/2024	8,842	10/05/2024	13,410	10/06/2024	9,839	10/07/2024	9,443	10/08/2024	7,461
11/01/2024	6,545	11/02/2024	6,115	11/03/2024	5,842	11/04/2024	8,819	11/05/2024	27,948	11/06/2024	8,798	11/07/2024	8,988	11/08/2024	7,658
12/01/2024	7,482	12/02/2024	5,811	12/03/2024	5,626	12/04/2024	9,178	12/05/2024	20,127	12/06/2024	8,603	12/07/2024	8,731	12/08/2024	7,465
13/01/2024	7,225	13/02/2024	5,642	13/03/2024	5,591	13/04/2024	8,711	13/05/2024	16,089	13/06/2024	8,348	13/07/2024	8,704	13/08/2024	7,899
14/01/2024	6,649	14/02/2024	5,631	14/03/2024	5,739	14/04/2024	7,979	14/05/2024	11,741	14/06/2024	9,105	14/07/2024	8,599	14/08/2024	9,383
15/01/2024	9,269	15/02/2024	6,196	15/03/2024	6,047	15/04/2024	7,299	15/05/2024	10,436	15/06/2024	19,502	15/07/2024	8,169	15/08/2024	12,355
16/01/2024	6,953	16/02/2024	17,641	16/03/2024	6,638	16/04/2024	9,669	16/05/2024	9,703	16/06/2024	13,605	16/07/2024	7,469	16/08/2024	8,988
17/01/2024	8,120	17/02/2024	8,089	17/03/2024	7,014	17/04/2024	11,274	17/05/2024	9,670	17/06/2024	10,186	17/07/2024	7,689	17/08/2024	8,785
18/01/2024	9,864	18/02/2024	7,252	18/03/2024	6,363	18/04/2024	9,352	18/05/2024	18,703	18/06/2024	9,289	18/07/2024	7,512	18/08/2024	8,277
19/01/2024	7,148	19/02/2024	9,526	19/03/2024	5,964	19/04/2024	9,027	19/05/2024	14,985	19/06/2024	8,716	19/07/2024	7,522	19/08/2024	7,517
20/01/2024	6,773	20/02/2024	9,057	20/03/2024	5,687	20/04/2024	35,646	20/05/2024	11,041	20/06/2024	8,499	20/07/2024	7,641	20/08/2024	7,534
21/01/2024	6,712	21/02/2024	12,114	21/03/2024	6,837	21/04/2024	27,267	21/05/2024	10,919	21/06/2024	8,365	21/07/2024	7,853	21/08/2024	7,271
22/01/2024	5,878	22/02/2024	8,039	22/03/2024	6,229	22/04/2024	13,889	22/05/2024	9,901	22/06/2024	8,377	22/07/2024	7,337	22/08/2024	7,144
23/01/2024	5,909	23/02/2024	6,935	23/03/2024	6,671	23/04/2024	11,899	23/05/2024	9,323	23/06/2024	10,458	23/07/2024	7,333	23/08/2024	7,157
24/01/2024	6,238	24/02/2024	7,353	24/03/2024	6,239	24/04/2024	9,805	24/05/2024	9,004	24/06/2024	9,198	24/07/2024	7,179	24/08/2024	7,314
25/01/2024	6,371	25/02/2024	7,715	25/03/2024	5,704	25/04/2024	9,565	25/05/2024	8,689	25/06/2024	8,538	25/07/2024	7,123	25/08/2024	7,277
26/01/2024	6,938	26/02/2024	6,654	26/03/2024	5,569	26/04/2024	9,047	26/05/2024	9,135	26/06/2024	8,234	26/07/2024	6,877	26/08/2024	7,489
27/01/2024	6,641	27/02/2024	6,488	27/03/2024	5,631	27/04/2024	8,917	27/05/2024	8,443	27/06/2024	8,889	27/07/2024	7,469	27/08/2024	6,872
28/01/2024	6,692	28/02/2024	6,945	28/03/2024	5,483	28/04/2024	8,757	28/05/2024	8,142	28/06/2024	8,074	28/07/2024	8,248	28/08/2024	6,982
29/01/2024	6,127	29/02/2024	6,491	29/03/2024	6,338	29/04/2024	8,289	29/05/2024	8,124	29/06/2024	8,153	29/07/2024	7,314	29/08/2024	6,692
30/01/2024	5,573			30/03/2024	6,639	30/04/2024	20,436	30/05/2024	7,994	30/06/2024	9,513	30/07/2024	7,297	30/08/2024	6,798
31/01/2024	6,109			31/03/2024	6,599			31/05/2024	7,668			31/07/2024	7,176	31/08/2024	6,893



EPL No 1942 - Summary of non-compliant data				
Date	Parameter	Result	Cause	Action taken
5 April 2024	Flow (greater than 36,000 kL)	42,263 kL	Stormwater Inflow	Management of inflow from STP catchment
6 April 2024	Flow (greater than 36,000 kL)	38,434 kL	Stormwater Inflow	Management of inflow from STP catchment
6 May 2024	Flow (greater than 36,000 kL)	42,758 kL	Stormwater Inflow	Management of inflow from STP catchment