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: 14 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)	рН	Total Suspended Solids (TSS)	Ammonia (mg/L)
License Concentration Limits					
100 percentile	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)	рН	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
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< : 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

Location of Pollution Monitoring Point:

Shelly Beach (Lic Pt 5), Toowoon Bay (Lic Pt 6), Blue Bay (Lic Pt 7)

and Blue Lagoon (Lic Pt 8)

Publishing Date: 14 May 2024

COMPLIANCE STATUS

EPL No. 1942 – Bateau Bay Sewage Treatment System Licence Period: 1 January 2024 – 31 December 2024

E STATUS

Collected	Obtained	scribe concent		Beach		on Bay	Rlii	e Bay	Rlue	Lagoon
Collected	Obtained	Fublished	Faecal		Faecal		Faecal		Faecal	
			coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	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 ~1000	<1 65	2 39	~2 11	3	<1 ~5	1 27	~7
9 April 2024	12 April 2024	17 April 2024					26			~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 10	<1 33	3 51	~2 22	1	<1 40	<1 ~7
7 May 2024 9 May 2024	13 May 2024	20 May 2024	~59					11		
9 May 2024	13 May 2024	20 May 2024	5	<1	17	~6	21	~6	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

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

EPL No. 1942 - Bateau Bay Sewage Treatment System

Licence Period: 1 January 2023 – 31 December 2024

Publishing Date: 14 May 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)	D,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 val	ue																											
Mean value																												
Median value)																											
Maximum val	lue																											
Limit of labor	atory detecti	on	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
										PO	LLUTIO	N MONI	TORING	S DATA	RESU	LTS												
Collected		Published				ı	1					1	ı	1	1	1		ı	ı	ı		ı	1	ı	1			-
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
100			<u> </u>																									

<: 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: 14 May 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						
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						
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						
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						
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						
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						
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						
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						
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						
10/01/2024	6,356	10/02/2024	6,495	10/03/2024	6,415	10/04/2024	8,842								
11/01/2024	6,545	11/02/2024	6,115	11/03/2024	5,842	11/04/2024	8,819								
12/01/2024	7,482	12/02/2024	5,811	12/03/2024	5,626	12/04/2024	9,178								
13/01/2024	7,225	13/02/2024	5,642	13/03/2024	5,591	13/04/2024	8,711								
14/01/2024	6,649	14/02/2024	5,631	14/03/2024	5,739	14/04/2024	7,979								
15/01/2024	9,269	15/02/2024	6,196	15/03/2024	6,047	15/04/2024	7,299								
16/01/2024	6,953	16/02/2024	17,641	16/03/2024	6,638	16/04/2024	9,669								
17/01/2024	8,120	17/02/2024	8,089	17/03/2024	7,014	17/04/2024	11,274								
18/01/2024	9,864	18/02/2024	7,252	18/03/2024	6,363	18/04/2024	9,352								
19/01/2024	7,148	19/02/2024	9,526	19/03/2024	5,964	19/04/2024	9,027								
20/01/2024	6,773	20/02/2024	9,057	20/03/2024	5,687	20/04/2024	35,646								
21/01/2024	6,712	21/02/2024	12,114	21/03/2024	6,837	21/04/2024	27,267								
22/01/2024	5,878	22/02/2024	8,039	22/03/2024	6,229	22/04/2024	13,889								
23/01/2024	5,909	23/02/2024	6,935	23/03/2024	6,671	23/04/2024	11,899								
24/01/2024	6,238	24/02/2024	7,353	24/03/2024	6,239	24/04/2024	9,805								
25/01/2024	6,371	25/02/2024	7,715	25/03/2024	5,704	25/04/2024	9,565								
26/01/2024	6,938	26/02/2024	6,654	26/03/2024	5,569	26/04/2024	9,047								
27/01/2024	6,641	27/02/2024	6,488	27/03/2024	5,631	27/04/2024	8,917								
28/01/2024	6,692	28/02/2024	6,945	28/03/2024	5,483	28/04/2024	8,757								
29/01/2024	6,127	29/02/2024	6,491	29/03/2024	6,338	29/04/2024	8,289								
30/01/2024	5,573			30/03/2024	6,639	30/04/2024	20,436								
31/01/2024	6,109			31/03/2024	6,599									·	

FLOW MONITORING DATA

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

EPL No. 1942 – Bateau Bay Sewage Treatment System

Location of 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: 14 May 2024

COMPLIANCE STATUS

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Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)
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EPL No 1942 - Sum	EPL No 1942 - Summary of non-compliant data												
Date	Parameter		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									