



Environmental Monitoring Report V2

Condong Biomass Power Plant 153 McLeod Street Condong NSW

Licencee Cape Byron Management Pty Ltd
Address 153 McLeod Street Condong NSW
EPL No 20424 <http://www.epa.nsw.gov.au/prpoeoapp/>

This data is published under section 66(6) of the *Protection of the Environment Operations Act 1997*

Sampling Point:
 Licence
 Location
 EPL No
 Parameters Monitored
 Frequency & Method
 Limits

Monitoring Point 1 - No 1 Boiler Stack Emissions
 Cape Byron Management Pty Ltd
 Condong Cogeneration Power Plant
 20424 www.environment.nsw.gov.au
 see individual parameters in table
 Annually in accordance with EPA procedures
 see individual parameters in table



Results Table

	AE 14169	AE 14321	AE 14454	AE14632	AE14632	AE14761
Test Number	8/02/2022	11/05/2022	7/09/2022	14/11/2022	14/12/2022	7/02/2023
Sampling Date	23/02/2022	7/06/2022	3/11/2022	25/11/2022	11/01/2023	21/03/2023
Date Received	22/04/2022	29/06/2022	16/11/2022	30/11/2022	25/01/2023	22/03/2023
Date Published						

Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit						
Average stack gas temperature	°C	Not Applicable	60.00	68.00	70.10	61.70	57.00	59.80
Average velocity at sampling plane	m/s	Not Applicable	14.20	13.90	16.00	15.80	15.80	15.40
Dry Gas Volumetric Flowrate	m ³ /sec	Not Applicable	63.43	59.30	68.20	67.60	69.75	67.33
Dry Gas Density	kg/m ³	Not Applicable	1.33	1.33	1.34	1.34	1.34	1.33
Molecular Weight of Stack Gases	g/g mole	Not Applicable	29.90	29.80	30.00	30.00	29.80	29.60
Moisture content	%	Not Applicable	13.80	16.30	15.40	16.80	16.80	17.1
Concentration of carbon dioxide	%	Not Applicable	8.67	7.88	9.54	9.85	8.03	5.88
Total Solid Particles	mg/m ³	100.00	14.10	17.40	22.60	99.40	98.00	29.40
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	30.00	13.80	12.50	11.30	6.30	5.33	2.29
Nitrogen Oxides (NO _x)	mg/m ³	500.00	169.00	209.00	231.00	191.00	211.00	156.00

Sampling Point: **Monitoring Point 2 - Ambient Air Monitoring Fuel Stockpile**
 Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 Parameters Monitored [Particulates - Deposited Matter](#)
 Monitoring Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days
 Limits Not Applicable
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (g/m ² /month)	Notes
06-Jan-21	25-Jan-21	29-Jan-21	0.78	35 day sample. Bottles stuck in transit (0.67g/m2/month)
05-Feb-21	12-Feb-21	26-Feb-21	0.77	
04-Mar-21	12-Mar-21	08-Apr-21	3.51	
06-Apr-21	16-Apr-21	22-Apr-21	1.06	
04-May-21	18-May-21	20-May-21	2.16	
04-Jun-21	18-Jun-21	02-Jul-21	1.83	
05-Jul-21	09-Jul-21	16-Jul-21	6.97	Fine org. matter, brown
03-Aug-21	11-Aug-21	13-Aug-21	1.43	Fine org. matter
06-Sep-21	10-Sep-21	23-Sep-21	3.56	Fine org. matter
05-Oct-21	14-Oct-21	22-Oct-21	3.31	Fine org. matter
03-Nov-21	05-Nov-21	15-Dec-21	0.50	
06-Dec-21	15-Dec-21	15-Dec-21	2.07	
04-Jan-22	21-Jan-22	28-Jan-22	7.79	
01-Feb-22	NA	22-Apr-22	NA	Flood damage to plant operations
01-Mar-22	NA	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2022, plant not operational
05-May-22	09-May-22	18-May-22	4.52	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	0.56	Organic matter
04-Jul-22	08-Aug-22	10-Aug-22	3.03	Cloudy
08-Aug-22	NA	NA	NA	Bottle smashed at EAL
06-Sep-22	12-Sep-22	21-Sep-22	2.16	Organic matter
06-Oct-22	13-Oct-22	19-Oct-22	1.93	
02-Nov-22	04-Nov-22	16-Nov-22	0.90	
07-Dec-22	20-Dec-22	25-Jan-23	2.03	Fine org. matter
11-Jan-23	12-Jan-23	25-Jan-23	2.64	dead beetle
03-Feb-23	10-Feb-23	22-Feb-23	0.73	
08-Mar-23	15-Mar-23	22-Mar-23	4.91	bugs, fine org. matter

Sampling Point: Monitoring Point 2 - Ambient Air Monitoring Fuel Stockpile
 Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 Parameters Monitored PM10
 Monitoring Frequency Once every 6 days when operating at stockpile
 Limits Not Applicable
 Comments



Date Sample Collected	Date Received	Date Published	Results (ug/m ³)	Notes
06-Jan-22	21-Jan-22	28-Jan-22	11.2	
12-Jan-22	NR	22-Apr-22	NR	28 Feb - PM10 sampler flood damaged no data
18-Jan-22	NR	22-Apr-22	NR	Flood damage to plant operations
24-Jan-22	NR	22-Apr-22	NR	Flood damage to plant operations
30-Jan-22	NR	22-Apr-22	NR	Flood damage to plant operations
05-Feb-22	NR	22-Apr-22	NR	Flood damage to plant operations
11-Feb-22	NR	22-Apr-22	NR	Flood damage to plant operations
17-Feb-22	NR	22-Apr-22	NR	Flood damage to plant operations
23-Feb-22	NR	22-Apr-22	NR	Flood damage to plant operations
01-Mar-22	NR	22-Apr-22	NR	Flood damage to plant operations
07-Mar-22	NR	22-Apr-22	NR	Flood damage to plant operations
13-Mar-22	NR	22-Apr-22	NR	Flood damage to plant operations
19-Mar-22	NR	22-Apr-22	NR	Flood damage to plant operations
25-Mar-22	NR	22-Apr-22	NR	PM10 sampler flood damaged new unit on order
31-Mar-22	NR	22-Apr-22	NR	PM10 sampler flood damaged new unit on order
06-Apr-22	NR	22-Apr-22	NR	PM10 sampler flood damaged new unit on order
12-Apr-22	NR	22-Apr-22	NR	PM10 sampler flood damaged new unit on order
18-Apr-22	NR	06-May-22	NR	PM10 sampler flood damaged new unit on order
24-Apr-22	NR	06-May-22	NR	PM10 sampler flood damaged new unit on order
30-Apr-22	NR	06-May-22	NR	PM10 sampler flood damaged new unit on order
06-May-22	NR	06-May-22	NR	PM10 sampler flood damaged new unit on order
12-May-22	NR	18-May-22	NR	PM10 sampler flood damaged new unit on order
18-May-22	NR	18-May-22	NR	PM10 sampler flood damaged new unit on order
24-May-22	NR	31-May-22	NR	PM10 sampler flood damaged new unit on order
30-May-22	NR	31-May-22	NR	PM10 sampler flood damaged new unit on order
05-Jun-22	NR	01-Jun-22	NR	PM10 sampler flood damaged new unit on order
11-Jun-22	NR	02-Jun-22	NR	PM10 sampler flood damaged new unit on order
17-Jun-22	NR	03-Jun-22	NR	PM10 sampler flood damaged new unit on order
23-Jun-22	NR	04-Jun-22	NR	PM10 sampler flood damaged new unit on order
29-Jun-22	NR	05-Jun-22	NR	PM10 sampler flood damaged new unit on order
07-Jul-22	19-Jul-22	27-Jul-22	24.8	
13-Jul-22	17-Aug-22	24-Aug-22	12.1	
19-Jul-22	17-Aug-22	24-Aug-22	25.2	
25-Jul-22	17-Aug-22	24-Aug-22	24.1	
31-Jul-22	01-Aug-22	21-Sep-22	19.1	
06-Aug-22	08-Aug-22	21-Sep-22	29.1	
12-Aug-22	12-Aug-22	21-Sep-22	23.5	
18-Aug-22	18-Aug-22	21-Sep-22	30.3	
24-Aug-22	24-Aug-22	21-Sep-22	19.2	
30-Aug-22	30-Aug-22	02-Nov-22	7.1	
05-Sep-22	05-Sep-22	02-Nov-22	11.8	
11-Sep-22	12-Sep-22	02-Nov-22	14.8	
17-Sep-22	19-Sep-22	02-Nov-22	7.7	
23-Sep-22	26-Sep-22	02-Nov-22	14.8	
29-Sep-22	30-Sep-22	16-Nov-22	18.1	
05-Oct-22	05-Oct-22	16-Nov-22	10.6	
11-Oct-22	13-Oct-22	16-Nov-22	13.8	
17-Oct-22	19-Oct-22	16-Nov-22	14.4	
23-Oct-22	31-Oct-22	16-Nov-22	16.0	
29-Oct-22	07-Nov-22	14-Dec-22	21.9	
04-Nov-22	10-Nov-22	14-Dec-22	13.2	
10-Nov-22	17-Nov-22	14-Dec-22	22.3	
16-Nov-22	22-Nov-22	14-Dec-22	41.6	
22-Nov-22	29-Nov-22	14-Dec-22	19.8	
28-Nov-22	19-Jan-23	25-Jan-23	NA	Paper damaged on retrieval due to wind gust
04-Dec-22	19-Jan-23	25-Jan-23	8.9	
10-Dec-22	19-Jan-23	25-Jan-23	26.2	
16-Dec-22	19-Jan-23	25-Jan-23	29.6	
22-Dec-22	19-Jan-23	25-Jan-23	21.6	
28-Dec-22	19-Jan-23	25-Jan-23	6.0	
03-Jan-23	19-Jan-23	25-Jan-23	12.2	
09-Jan-23	01-Mar-23	08-Mar-23	9.3	
15-Jan-23	01-Mar-23	08-Mar-23	6.2	
21-Jan-23	01-Mar-23	08-Mar-23	11.4	
27-Jan-23	01-Mar-23	08-Mar-23	15.4	
02-Feb-23	01-Mar-23	08-Mar-23	12.4	
08-Feb-23	20-Mar-23	22-Mar-23	48.4	
14-Feb-23	20-Mar-23	22-Mar-23	25.2	
20-Feb-23	20-Mar-23	22-Mar-23	9.0	
26-Feb-23	20-Mar-23	22-Mar-23	11.0	
04-Mar-23	20-Mar-23	22-Mar-23	26.2	

Sampling Point: Monitoring Point 4 - Ambient Air Monitoring North of Bowling Club
 Licence Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 Parameters Monitored **Particulates - Deposited Matter**
 Monitoring Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days



Limits Not Applicable

Comments Laboratory Analysis

Date Sample Collected	Date Received	Date Published	Results (g/m ² /month)	Notes
06-Jan-21	25-Jan-21	29-Jan-21	1.59	35 day sample. Bottles stuck in transit (1.36g/m2/month)
05-Feb-21	12-Feb-21	26-Feb-21	0.32	
04-Mar-21	12-Feb-21	08-Apr-21	1.65	
06-Apr-21		22-Apr-21	N/A	Sample was void
04-May-21	18-May-21	20-May-21	1.50	
04-Jun-21	18-Jun-21	02-Jul-21	0.60	
05-Jul-21	09-Jul-21	16-Jul-21	1.33	Fine org. matter
03-Aug-21	11-Aug-21	13-Aug-21	1.15	Fine org. matter
06-Sep-21	10-Sep-21	23-Sep-21	1.94	Large org. matter, cloudy
05-Oct-21	14-Oct-21	22-Oct-21	3.31	ants, fine org. matter
03-Nov-21	05-Nov-21	23-Nov-21	0.50	Leaf, fine org. matter
06-Dec-21	15-Dec-21	15-Dec-21	0.56	Spider, large org. matter
04-Jan-22	21-Jan-22	28-Jan-22	3.42	Fine org. matter
01-Feb-22	NA	22-Apr-22	NA	Flood damage to plant operations
				Bottles flood damaged and not serviceable, new bottles set 08/04/2022
01-Mar-22	NA	22-Apr-22	NA	
05-May-22	09-May-22	18-May-22	1.06	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	0.88	Organic matter
04-Jul-22	08-Aug-22	10-Aug-22	2.86	Bugs, grass Fine Org. Matter
08-Aug-22	12-Aug-22	24-Aug-22	1.22	Dead worm. Fine Org. Matter, Large Org. Matter
06-Sep-22	12-Sep-22	21-Sep-22	2.27	Org. Matter
06-Oct-22	13-Oct-22	19-Oct-22	3.92	Fine Org. Matter
02-Nov-22	04-Nov-22	16-Nov-22	1.43	
07-Dec-22	20-Dec-02	25-Jan-23	3.70	Dead bugs, fine Org. matter
11-Jan-23	12-Jan-23	25-Jan-23	4.55	Fine org. matter
03-Feb-23	10-Feb-23	22-Feb-23	0.18	Org. Matter
08-Mar-23	15-Mar-23	22-Mar-23	0.58	Org. Matter

Sampling Point: Monitoring Point 5 - Ambient Air Monitoring South of Mill

Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424



Parameters Monitored **Particulates - Deposited Matter**
 Monitoring Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days

Limits Not Applicable

Comments Laboratory Analysis

Date Sample Collected	Date Received	Date Published	Results (g/m ² /month)	Notes
06-Jan-21	25-Jan-21	29-Jan-21	2.73	35 day sample. Bottles stuck in transit (2.34g/m2/month)
05-Feb-21	12-Feb-21	26-Feb-21	0.83	
04-Mar-21	12-Mar-21	08-Apr-21	2.53	Ants
06-Apr-21	16-Apr-21	22-Apr-21	4.30	
04-May-21	18-May-21	20-May-21	1.94	
04-Jun-21	18-Jun-21	02-Jul-21	1.88	
05-Jul-21	09-Jul-21	16-Jul-21	2.72	Fine org. matter
03-Aug-21	11-Aug-21	13-Aug-21	3.25	Fine org. matter, cloudy
06-Sep-21	10-Sep-21	23-Sep-21	3.43	Large org. matter, cloudy
05-Oct-21	14-Oct-21	22-Oct-21	6.57	Fine org. matter, cloudy
03-Nov-21	05-Nov-21	23-Nov-21	2.29	Fine org. matter
06-Dec-21	15-Dec-21	15-Dec-21	6.12	Dirt, fine org. matter
04-Jan-22	21-Jan-22	28-Jan-22	5.07	Fine org. matter
NA	01-Feb-22	22-Apr-22	NA	Flood damage to plant operations
NA	01-Mar-22	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2021
05-May-22	09-May-22	18-May-22	0.92	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	1.61	Organic matter & algae
04-Jul-22	08-Aug-22	10-Aug-22	2.52	Grasshopper, spider, Org.Matter, Cloudy
08-Aug-22	12-Aug-22	24-Aug-22	1.46	Fine Org. Matter
06-Sep-22	12-Aug-22	21-Sep-22	5.06	Yellow, Cloudy
06-Oct-22	13-Oct-22	19-Oct-22	5.45	Fine Org. Matter
02-Nov-22	04-Nov-22	16-Nov-22	4.02	bugs Org. Matter
07-Dec-02	20-Dec-02	25-Jan-23	1.51	Org. Matter
11-Jan-23	12-Jan-23	25-Jan-23	4.85	Fine org. matter
03-Feb-23	10-Feb-23	22-Feb-23	0.96	small seeds, org. matter
08-Mar-23	15-Mar-23	22-Mar-23	0.73	dead bugs, seeds, fine org. matter, yellow

Monitoring Point: Monitoring Point 6 - O₂ Boiler Prior to Primary Air Heater
Licensee: Cape Byron Management Pty Ltd
Location: Condong Cogeneration Power Plant
EPL No: 20424
Parameters Monitored: Oxygen
Frequency & Method: Continuous Online Sampling
Limit: No Limits Prescribed
Comments: The results in the table provide a summary of the minimum, maximum and mean daily values for the period indicated



MONITORING PERIOD		Oxygen (%)			Notes	
Date Start	Date Finish	Date Published	Minimum Value	Maximum Value		
28-Dec-20	3-Jan-21	6-Jan-21	n/a	n/a	Boiler Offline	
4-Jan-21	10-Jan-21	20-Jan-21	n/a	n/a	Boiler Offline	
11-Jan-21	17-Jan-21	20-Jan-21	2.95	19.69	10.07	Boiler Offline 11/01/21
16-Jan-21	24-Jan-21	29-Jan-21	4.77	20.35	8.42	
25-Jan-21	31-Jan-21	10-Feb-21	4.81	20.56	10.61	
1-Feb-21	7-Feb-21	10-Feb-21	4.98	20.57	10.79	
8-Feb-21	14-Feb-21	26-Feb-21	-0.01	20.81	9.57	
15-Feb-21	21-Feb-21	26-Feb-21	4.66	16.39	8.60	
22-Feb-21	28-Feb-21	12-Mar-21	4.75	20.53	9.68	
1-Mar-21	7-Mar-21	12-Mar-21	4.62	20.58	11.83	
8-Mar-21	14-Mar-21	8-Apr-21	4.19	20.43	9.37	
15-Mar-21	21-Mar-21	8-Apr-21	4.68	20.15	12.79	
22-Mar-21	28-Mar-21	8-Apr-21	5.05	20.48	14.98	Offline 26/03/21
29-Mar-21	4-Apr-21	8-Apr-21	6.61	20.37	17.84	Offline 29/03/21 and 30/03/21
5-Apr-21	11-Apr-21	22-Apr-21	N/A	N/A	N/A	Boiler offline
12-Apr-21	18-Apr-21	22-Apr-21	N/A	N/A	N/A	Boiler offline
19-Apr-21	25-Apr-21	6-May-21	N/A	N/A	N/A	Boiler offline
26-Apr-21	2-May-21	6-May-21	3.14	19.77	11.16	
3-May-21	9-May-21	20-May-21	4.09	20.13	9.60	
10-May-21	16-May-21	20-May-21	4.20	19.80	14.30	
17-May-21	23-May-21	2-Jun-21	2.86	16.57	7.67	
24-May-21	30-May-21	2-Jun-21	3.04	20.62	11.72	
31-May-21	6-Jun-21	17-Jun-21	3.61	20.84	12.93	
7-Jun-21	13-Jun-21	17-Jun-21	3.08	20.30	12.65	
14-Jun-21	20-Jun-21	2-Jul-21	3.45	20.55	11.31	
21-Jun-21	27-Jun-21	2-Jul-21	0.51	12.46	4.49	
28-Jun-21	4-Jul-21	16-Jul-21	1.58	20.78	10.83	
5-Jul-21	11-Jul-21	16-Jul-21	1.56	20.36	10.97	
12-Jul-21	18-Jul-21	30-Jul-21	0.34	18.61	8.22	
19-Jul-21	25-Jul-21	30-Jul-21	0.09	20.54	4.85	
26-Jul-21	1-Aug-21	13-Aug-21	0.89	10.89	4.60	
2-Aug-21	8-Aug-21	13-Aug-21	0.88	12.93	4.85	
9-Aug-21	15-Aug-21	26-Aug-21	0.59	20.36	9.80	
16-Aug-21	22-Aug-21	26-Aug-21	0.34	20.54	4.71	
23-Aug-21	29-Aug-21	9-Sep-21	0.03	20.55	5.39	
30-Aug-21	5-Sep-21	9-Sep-21	0.01	12.51	5.92	
6-Sep-21	12-Sep-21	23-Sep-21	0.01	20.37	5.90	
13-Sep-21	19-Sep-21	23-Sep-21	0.01	13.77	4.21	
20-Sep-21	26-Sep-21	8-Oct-21	0.08	12.70	4.33	
27-Sep-21	3-Oct-21	8-Oct-21	0.08	20.66	6.57	
4-Oct-21	10-Oct-21	8-Oct-21	0.01	11.26	4.61	
11-Oct-21	17-Oct-21	22-Oct-21	1.22	20.74	11.02	
18-Oct-21	24-Oct-21	5-Nov-21	0.01	12.71	4.61	
25-Oct-21	31-Oct-21	5-Nov-21	0.40	12.39	4.18	
1-Nov-21	7-Nov-21	23-Nov-21	0.14	13.48	4.26	
8-Nov-21	14-Nov-21	23-Nov-21	0.49	20.66	6.23	
15-Nov-21	21-Nov-21	15-Dec-21	0.01	15.48	4.16	
22-Nov-21	28-Nov-21	15-Dec-21	1.19	20.46	9.20	
29-Nov-21	5-Dec-21	15-Dec-21	2.91	20.31	17.78	
6-Dec-21	12-Dec-21	15-Dec-21	3.91	20.42	13.06	Boiler Shutdown 11/12/21
13-Dec-21	19-Dec-21	22-Dec-21	N/A	N/A	N/A	Boiler offline
20-Dec-21	26-Dec-21	14-Jan-22	4.47	20.12	17.07	Boiler offline 23/12/21 to 26/12/21
27-Dec-21	2-Jan-22	14-Jan-22	N/A	N/A	N/A	Boiler offline
3-Jan-22	8-Jan-22	14-Jan-22	4.01	19.85	16.07	Online 9/1
10-Jan-22	16-Jan-22	14-Jan-22	3.60	20.30	15.94	Boiler offline 12/1/22 - 16/1/22
17-Jan-22	23-Jan-22	28-Jan-22	-0.01	19.69	19.54	Online 21/1/22
24-Jan-22	30-Jan-22	1-Feb-22	-1.00	20.39	7.53	Boiler Offline 24/1/22, 28/1/22 and 30/1/22
31-Jan-22	6-Feb-22	11-Feb-22	2.92	20.14	16.44	Boiler Offline 1/2/22, 3/2/22, 6/2/22
7-Feb-22	13-Feb-22	25-Feb-22	3.56	20.54	12.46	Boiler offline 1/2/22, 12/2/22
14-Feb-22	20-Feb-22	25-Feb-22	1.97	20.28	13.45	Boiler offline 14/2/22, 15/2/22, 16/2/22, 19/2/22, 20/2/22
21-Feb-22	27-Feb-22	22-Apr-22	2.68	19.87	13.17	Boiler off line 24/2/22 - 28/2/22
28-Feb-22	6-Mar-22	22-Apr-22	NA	NA	NA	Flood damage to plant operations Boiler off line 28/2/22 - 10/2/22
7-Mar-22	13-Mar-22	22-Apr-22	NA	NA	NA	Boiler off line 28/3/22 - 10/3/22 No data due to no power from flood
14-Mar-22	20-Mar-22	22-Apr-22	NA	NA	NA	Flood damage to plant operations Boiler offline flood and annual shut down
21-Mar-22	27-Mar-22	22-Apr-22	NA	NA	NA	Boiler offline 21/3/22 - 27/3/22
28-Mar-22	3-Apr-22	22-Apr-22	NA	NA	NA	Boiler offline 28/2/22 - 03/3/22
4-Apr-22	10-Apr-22	22-Apr-22	0.77	19.47	19.54	Boiler offline - 04/03/22 - 10/4/22
11-Apr-22	17-Apr-22	6-May-22	2.16	20.36	9.64	
18-Apr-22	24-Apr-22	8-May-22	2.13	8.17	7.30	
25-Apr-22	1-May-22	8-May-22	-0.77	20.16	9.88	
2-May-22	8-May-22	18-May-22	0.19	20.23	9.89	Boiler offline 07/05/22 - 08/05/22
9-May-22	15-May-22	18-May-22	2.47	20.32	9.75	
16-May-22	22-May-22	31-May-22	2.17	20.07	10.45	Boiler offline 21/05/22 - 22/05/22
23-May-22	29-May-22	31-May-22	2.57	20.24	10.55	Boiler offline 23/05/22, 28/05/22, 29/05/22
30-May-22	5-Jun-22	17-Jun-22	0.09	18.61	6.88	Boiler offline 05/06/22
6-Jun-22	12-Jun-22	17-Jun-22	1.97	20.14	7.97	Boiler offline 03/06/22 - 11/06/22
13-Jun-22	19-Jun-22	29-Jun-22	2.54	20.08	8.56	Boiler offline 18/06/22 - 19/06/22
20-Jun-22	26-Jun-22	1-Jul-22	-0.00	19.87	6.59	Boiler offline 21/06/22 - 22/06/22
27-Jun-22	3-Jul-22	15-Jul-22	0.00	16.44	4.16	
4-Jul-22	10-Jul-22	15-Jul-22	2.30	20.11	8.78	Boiler offline 10/07/22
11-Jul-22	17-Jul-22	15-Jul-22	0.00	20.32	6.44	Boiler offline 14/07/22 - 15/07/22
18-Jul-22	24-Jul-22	27-Jul-22	0.00	20.36	7.91	Boiler offline 23/07/22 - 24/07/22
25-Jul-22	31-Jul-22	10-Aug-22	0.08	20.17	6.96	Boiler offline 26/07/22 - 27/07/22
1-Aug-22	7-Aug-22	10-Aug-22	0.00	8.91	2.98	
8-Aug-22	14-Aug-22	24-Aug-22	0.00	14.53	2.44	
15-Aug-22	21-Aug-22	24-Aug-22	0.00	20.12	3.63	Boiler offline 18/08/2022
22-Aug-22	28-Aug-22	7-Sep-22	0.00	7.88	2.92	
29-Aug-22	4-Sep-22	7-Sep-22	0.00	20.15	6.42	Boiler offline 01/09/2022, 03/09/2022, 04/09/2022
5-Sep-22	11-Sep-22	21-Sep-22	0.02	20.72	8.43	Boiler offline 05/09/2022, 10/09/2022, 11/09/2022
12-Sep-22	18-Sep-22	21-Sep-22	0.00	11.39	4.17	
19-Sep-22	25-Sep-22	5-Oct-22	0.08	20.07	7.99	Boiler offline 19/09/2022, 20/09/2022, 21/09/2022, 23/09/2022, 24/09/2022, 25/09/2022
26-Sep-22	2-Oct-22	5-Oct-22	0.00	20.16	7.99	Boiler offline 26/09/2022, 27/09/2022, 02/10/2022
3-Oct-22	9-Oct-22	19-Oct-22	0.00	20.51	7.48	Boiler offline 03/10/2022, 04/10/2022, 05/10/2022
10-Oct-22	16-Oct-22	19-Oct-22	0.09	19.84	5.01	Boiler offline 10/10/2022, 15/10/2022
17-Oct-22	23-Oct-22	2-Nov-22	0.98	20.19	11.48	Boiler offline 21/10/2022-22/10/2022
24-Oct-22	30-Oct-22	2-Nov-22	0.73	20.62	10.91	Boiler offline 24/10/2022 - 25/10/2022, 27/10/2022 - 28/10/2022
31-Oct-22	6-Nov-22	16-Nov-22	0.03	20.24	6.39	Boiler offline 02/11/2022
7-Nov-22	13-Nov-22	16-Nov-22	0.00	8.40	2.08	
14-Nov-22	20-Nov-22	30-Nov-22	0.00	19.77	2.70	Boiler offline 15/11/2022
21-Nov-22	27-Nov-22	30-Nov-22	0.00	14.27	2.41	
28-Nov-22	4-Dec-22	14-Dec-22	0.24	20.28	13.08	Boiler offline 28/11/2022, 29/11/2022, 30/11/2022
5-Dec-22	11-Dec-22	14-Dec-22	1.37	20.51	10.48	Boiler offline 06/12/2022 - 11/12/2022
12-Dec-22	18-Dec-22	25-Jan-23	1.28	20.16	7.58	Boiler offline 10/12/2022, 18/12/2022
19-Dec-22	25-Dec-22	25-Jan-23	0.08	20.10	11.31	Boiler offline 12/12/2022, 23/12/2024 - 25/12/2022
26-Dec-22	1-Jan-23	25-Jan-23	20.01	20.17	20.10	Boiler offline 26/12/2022 - 01/01/2023
2-Jan-23	8-Jan-23	25-Jan-23	2.03	20.36	12.41	Boiler offline 02/01/2023, 03/01/2023, 06/01/2023, 07/01/2023, 08/01/2023
9-Jan-23	15-Jan-23	25-Jan-23	1.43	20.28	14.48	Boiler offline 09/01/2023, 10/01/2023, 11/01/2023, 13/01/2023, 14/01/2023, 15/01/2023
16-Jan-23	22-Jan-23	25-Jan-23	0.59	20.18	15.18	Boiler offline 20/01/2023, 24/01/2023, 24/01/2023, 25/01/2023, 26/01/2023, 28/01/2023, 28/01/2023
23-Jan-23	29-Jan-23	8-Feb-23	1.93	20.00	16.90	Boiler offline 30/01/2023, 01/02/2023, 02/02/2023, 03/02/2023, 04/02/2023, 05/02/2023
30-Jan-23	5-Feb-23	8-Feb-23	2.46	19.99	14.02	Boiler offline 06/02/2023, 10/02/2023, 11/02/2023, 12/02/2023
6-Feb-23	12-Feb-23	22-Feb-23	2.48	20.03	11.00	Boiler offline 13/02/2023, 14/02/2023, 15/02/2023, 16/02/2023, 17/02/2023, 18/02/2023, 19/02/2023
13-Feb-23	19-Feb-23	22-Feb-23	-0.77	20.33	14.88	Boiler offline 20/02/2023, 23/02/2023, 24/02/2023, 25/02/2023, 26/02/2023
20-Feb-23	26-Feb-23	8-Mar-23	1.73	20.12	11.05	Boiler offline 27/02/2023, 03/03/2023, 04/03/2023, 05/03/2023
27-Feb-23	5-Mar-23	8-Mar-23	0.33	20.14	9.52	
6-Mar-23	12-Mar-23	22-Mar-23	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down
13-Mar-23	19-Mar-23	22-Mar-23	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down

Sampling Point: Monitoring Point 8 - Injection Water Inlet, Background River Water Temperature
Licence: Cape Byron Management Pty Ltd
Location: Condong Cogeneration Power Plant
EPL No: 20424
Parameters Monitored: Temperature (°C)
Frequency & Method: Fortnightly Representative Sample
Limits: Not Applicable - Background river data is used to determine temperature of cooling water discharged at monitoring point 9



Comments

Date Sampled & Received	Date Published	Temp (°C)	Notes
6-Jan-21	20-Jan-21	27.0	
27-Jan-21	29-Jan-21	28.0	
8-Feb-21	10-Feb-21	28.0	
22-Feb-21	26-Feb-21	28.0	
8-Mar-21	12-Mar-21	27.0	
15-Mar-21	08-Apr-21	27.0	
29-Mar-21	08-Apr-21	27.0	
6-Apr-21	08-Apr-21	25.0	
19-Apr-21	22-Apr-21	24.5	
27-Apr-21	06-May-21	26.0	
10-May-21	20-May-21	22.0	
24-May-21	02-Jun-21	20.0	
4-Jun-21	17-Jun-21	20.0	
16-Jun-21	02-Jul-21	20.0	
23-Jun-21	02-Jul-21	20.0	
7-Jul-21	16-Jul-21	19.5	
12-Jul-21	16-Jul-21	20.0	
26-Jul-21	30-Jul-21	19.0	
9-Aug-21	13-Aug-21	19.0	
23-Aug-21	26-Aug-21	19.0	
31-Aug-21	09-Sep-21	19.0	
10-Sep-21	23-Sep-21	19.5	
21-Sep-21	23-Sep-21	22.5	
4-Oct-21	08-Oct-21	22.0	
11-Oct-21	22-Oct-21	24.0	
22-Oct-21	05-Nov-21	24.0	
2-Nov-21	05-Nov-21	24.5	
12-Nov-21	15-Dec-21	24.0	
6-Dec-21	15-Dec-21	24.0	
20-Dec-21	15-Dec-21	25.0	
29-Dec-21	14-Jan-22	24.0	
11-Jan-22	14-Jan-22	26.5	
11-Jan-22	22-Apr-22	26.0	
26-Jan-22	22-Apr-22	25.0	
31-Jan-22	22-Apr-22	28.0	
21-Jan-22	22-Apr-22	30.0	
3-Feb-22	22-Apr-22	24.0	
11-Feb-22	22-Apr-22	24.0	
12-Feb-22	22-Apr-22	24.0	
17-Feb-22	22-Apr-22	25.0	
18-Feb-22	22-Apr-22	29.0	
19-Feb-22	22-Apr-22	24.0	
21-Feb-22	22-Apr-22	24.0	Flood damage to plant operations
11-Apr-22	22-Apr-22	23.1	Flood damage to plant operations
21-Apr-22	22-Apr-22	26.0	
28-Apr-22	06-May-22	25.0	
5-May-22	06-May-22	26.0	
16-May-22	17-May-22	26.5	
23-May-22	31-May-22	26.0	
6-Jun-22	17-Jun-22	26.0	
13-Jun-22	29-Jun-22	24.0	
20-Jun-22	29-Jun-22	24.0	
27-Jun-22	15-Jul-22	24.0	
4-Jul-22	15-Jul-22	24.0	
11-Jul-22	15-Jul-22	24.0	
18-Jul-22	27-Jul-22	24.0	
25-Jul-22	31-Jul-22	24.0	
1-Aug-22	08-Aug-22	24.0	
9-Aug-22	24-Aug-22	24.0	
16-Aug-22	24-Aug-22	24.0	
23-Aug-22	24-Aug-22	24.0	
30-Aug-22	07-Sep-22	24.0	
6-Sep-22	21-Sep-22	24.0	
13-Sep-22	21-Sep-22	24.0	
20-Sep-22	5-Oct-22	22.0	
4-Oct-22	19-Oct-22	22.0	
18-Oct-22	19-Oct-22	22.0	
1-Nov-22	02-Nov-22	22.0	
8-Nov-22	16-Nov-22	22.0	
15-Nov-22	16-Nov-22	24.5	
22-Nov-22	30-Nov-22	27.0	
29-Nov-22	30-Nov-22	26.0	
8-Dec-22	14-Dec-22	27.0	
19-Dec-22	25-Jan-23	26.5	
2-Jan-23	25-Jan-23	28.0	
16-Jan-23	25-Jan-23	28.0	
23-Jan-23	08-Feb-23	28.0	
6-Feb-23	08-Feb-23	28.0	
13-Feb-23	22-Feb-23	28.0	
26-Feb-23	08-Mar-23	28.0	
1-Mar-23	08-Mar-23	30.5	
13-Mar-23	22-Mar-23	30.5	
20-Mar-23	22-Mar-23	30.5	

Sampling Point: **Monitoring Point 12 - Stormwater Discharge From Stockpile Catchment Basin**
 Licence: Cape Byron Management Pty Ltd
 Location: Condong Cogeneration Power Plant
 EPL No: 20424
 Parameter/s Monitored: See Table
 Frequency & Method: Sampling any discharge, whether controlled or otherwise, which has not occurred from rainfall exceeding 82mm over any consecutive five day period
 Limit/s: See Table
 Comments: A 90 percentile limit means 90% of results must comply with the specified limit. No result may exceed the maximum limit.



Date Sampled	Date Received	Date Published						Notes	
			90 Percentile Limit	BOD ₅ (mg/L)	Nitrogen (mg/L)	pH	Phosphorus (mg/L)		TSS (mg/L)
			Maximum Limit	30	10	6.5 - 8.5	No Limit	50.0	
19-Jan-21	28-Jan-21	29-Jan-21		8.2	1.3	7.88	0.3	32.0	
23-Feb-21	01-Mar-21	12-Mar-21		10.0	2.1	7.17	0.9	37.0	
15-Mar-21	22-Mar-21	08-Apr-21		5.5	1.2	7.47	0.5	44.0	
25-Mar-21	31-Mar-21	08-Apr-21		15.0	0.9	6.99	0.4	38.0	
13-May-21	19-May-21	02-Jun-21		3.7	0.8	7.65	0.2	11.0	
09-Jul-21	14-Jul-21	16-Jul-21		9.7	1.0	6.89	0.2	37.0	
13-Oct-21	20-Oct-21	22-Oct-21		15.0	1.0	7.15	0.2	27.0	
08-Dec-21	15-Dec-21	22-Dec-21		6.6	1.3	7.60	0.4	17.0	
30-Dec-21	05-Jan-22	14-Jan-22		5.2	0.8	7.35	0.2	23.0	
13-May-22	18-May-22	31-May-22		2.8	2.0	7.15	0.3	28.0	
22-Jul-22	27-Jul-22	02-Aug-22		<1.0	1.0	7.27	0.3	40.0	
27-Jul-22	08-Aug-22	10-Aug-22		8.5	0.9	6.80	0.4	44.0	
26-Sep-22	04-Oct-22	05-Oct-22		3.0	0.9	7.18	0.2	38.0	
03-Nov-22	11-Nov-22	16-Nov-22		5.4	1.1	8.50	0.2	30.0	

Monitoring Point 9 - Co-operation Cooling Water Discharge

Location: Case Byron Management Pty Ltd
 Controlling Cogeneration Power Plant
 29424

Parameters Monitored: See Table
 Frequency & Method: Continuous Online

Limits: See Table
 Comments: A 90% percentile limit means 90% of results must comply with the specified limit. No result may exceed the maximum.

The results in the table below provide a summary of the minimum, maximum and mean values for the period indicated. Any exceedances for period if applicable are described in the notes.
 > Background means the temperature of the discharge above ambient river temperature. This value is determined by subtracting the river temperature from the discharged cooling water temperature. The reported temp values provide the difference between the discharge and river temp.



MONITORING PERIOD	Date Start	Date Finish	Date Published	Temperature Difference						Volume			Notes
				Minimum Reading	Maximum Reading	Mean of Readings	90 th Percentile	°C > Background	Limit#	Maximum Daily Discharge	Mean Daily Discharge	Not Prescribed	
3-Jan-22	8-Jan-22	14-Jan-22	7.41	8.13	7.95	-1.4	8.1	2.7	0	571	3	Boiler Offline	
10-Jan-22	16-Jan-22	22-Jan-22	7.41	8.20	8.02	-5.8	5.9	-0.1	0	743	179	Boiler Offline 12/1/22 - 16/1/22	
17-Jan-22	23-Jan-22	29-Jan-22	8.01	8.20	7.95	-2.8	13.4	2.8	0	546	0	Boiler Offline 23/1/22	
24-Jan-22	30-Jan-22	31-Jan-22	8.38	8.18	8.04	-2.3	7.7	-1.8	0	737	319	Boiler Offline 24/1/22 - 26/1/22 and 30/1/22	
31-Jan-22	6-Feb-22	11-Feb-22	7.11	8.23	8.08	-6.0	4.0	-0.9	0	732	263	Boiler Offline 10/2/22 - 30/2/22 - 6/2/22	
7-Feb-22	13-Feb-22	25-Feb-22	7.18	8.23	8.08	-7.7	5.2	1.2	0	733	359	Boiler Offline 14/2/22 - 16/2/22 - 16/2/22, 18/2/22 - 20/2/22	
14-Feb-22	20-Feb-22	25-Feb-22	7.00	8.40	8.00	-7.9	7.7	0.6	0	761	359	Boiler Offline 20/2/22 - 23/2/22	
21-Feb-22	27-Feb-22	8-Mar-22	6.00	8.20	8.09	-2.4	7.1	1.9	0	759	239	Boiler Offline 26/2/22 - 28/2/22	
28-Feb-22	8-Mar-22	8-Mar-22	7.03	8.23	7.17	-4.3	4.2	-3.1	0	1296	857	Flood damage to plant operations and annual shut down	
7-Mar-22	13-Mar-22	22-Apr-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	Flood damage to plant operations and annual shut down	
14-Mar-22	20-Mar-22	22-Apr-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	Flood damage to plant operations and annual shut down	
21-Mar-22	27-Mar-22	22-Apr-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	Flood damage to plant operations and annual shut down	
28-Mar-22	3-Apr-22	22-Apr-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	Flood damage to plant operations and annual shut down	
4-Apr-22	10-Apr-22	22-Apr-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	Flood damage to plant operations and annual shut down	
11-Apr-22	17-Apr-22	18-May-22	7.30	8.18	8.03	-8.07	8.57	2.40	0.00	814.00	683.00		
18-Apr-22	24-Apr-22	18-May-22	8.67	7.17	8.08	-3.87	8.71	1.88	0.00	746.00	625.00		
25-Apr-22	1-May-22	18-May-22	0.70	8.77	8.08	-8.27	5.26	0.71	0.00	1288.00	541.00	Data recovery error from failed hard drives	
23-May-22	8-May-22	18-May-22	7.20	8.37	8.08	-1.30	2.30	0.48	666	802	717	Low pH due to data recovery error from failed hard drives	
8-May-22	14-May-22	18-May-22	8.08	8.16	8.08	-0.8	4.0	0.5	0	639	527	Boiler Offline 23/5/22 - 23/5/22	
16-May-22	22-May-22	31-May-22	8.08	8.35	8.07	-0.8	4.0	0.5	0	578	629	Boiler Offline 29/5/22 - 26/5/22	
23-May-22	29-May-22	31-May-22	8.38	8.23	8.07	-10.2	2.9	1.0	0	816	629	Boiler Offline 05/6/22	
30-May-22	5-Jun-22	17-Jun-22	8.69	8.10	8.09	-11.6	3.2	0.7	656	735	732	Boiler Offline 05/6/22	
6-Jun-22	12-Jun-22	17-Jun-22	8.08	8.19	8.08	-10.0	2.1	-0.8	618	729	729	Boiler Offline 10/6/22 - 11/6/22	
13-Jun-22	19-Jun-22	26-Jun-22	7.58	8.10	8.09	-11.4	2.4	-0.5	564	772	717	Boiler Offline 18/6/22 - 19/6/22	
20-Jun-22	26-Jun-22	26-Jun-22	7.15	8.22	8.01	-14.5	2.1	-4.2	619	749	591	Boiler Offline 21/6/22 - 22/6/22	
27-Jun-22	3-Jul-22	15-Jul-22	-0.03	8.46	8.02	-4.6	1.4	-1.5	490	771	643	Low pH not a real event. Instrumentation was being worked on at between 09:00-10:00 30th June	
4-Jul-22	10-Jul-22	15-Jul-22	8.56	8.20	7.84	-19.8	2.3	-1.5	316	773	720	Low pH not a real event. Instrumentation was being worked on at between 09:00 - 09:30 31st July	
11-Jul-22	17-Jul-22	27-Jul-22	1.03	8.43	7.93	-11.8	-0.8	-4.0	485	769	594	Boiler Offline 14/7/22 - 14/7/22	
18-Jul-22	24-Jul-22	27-Jul-22	0.70	8.40	7.87	-11.2	1.0	-3.4	497	732	542	Boiler Offline 23/7/22 - 24/7/22	
25-Jul-22	31-Jul-22	10-Aug-22	8.11	8.11	7.7	-14.1	1.7	-4.1	278	739	694	Boiler Offline 26/7/22 - 27/7/22	
1-Aug-22	7-Aug-22	10-Aug-22	8.87	8.42	7.93	-9.4	1.0	-2.6	12	641	517	Boiler Offline 26/7/22 - 27/7/22	
8-Aug-22	14-Aug-22	24-Aug-22	7.19	8.20	7.99	-9.7	-1.4	-3.1	487	680	512	Boiler Offline 21/8/22 - 22/8/22	
15-Aug-22	21-Aug-22	24-Aug-22	7.20	8.26	8.00	-13.1	-0.5	-3.8	483	681	512	Boiler Offline 18/8/2022	
22-Aug-22	28-Aug-22	7-Sep-22	8.81	8.35	8.00	-7.3	-0.9	-3.6	457	591	509		
29-Aug-22	5-Sep-22	7-Sep-22	7.45	8.19	8.06	-11.5	3.0	-2.7	397	716	516	Boiler Offline 01/09/2022 - 03/09/2022 - 04/09/2022	
5-Sep-22	11-Sep-22	21-Sep-22	8.08	8.45	8.00	-13.0	4.0	-3.7	410	750	620	Boiler Offline 05/09/2022 - 10/09/2022 - 11/09/2022	
12-Sep-22	18-Sep-22	21-Sep-22	8.70	8.41	8.02	-5.8	3.1	-2.0	30	759	526		
19-Sep-22	25-Sep-22	5-Oct-22	8.97	8.47	7.99	-6.5	4.0	-0.8	239	833	512	Boiler Offline 18/09/2022 - 20/09/2022 - 21/09/2022 - 23/09/2022 - 24/09/2022 - 25/09/2022	
26-Sep-22	2-Oct-22	5-Oct-22	8.62	8.45	8.01	-8.4	4.0	0.1	252	721	504	Boiler Offline 26/09/2022 - 27/09/2022 - 28/09/2022	
3-Oct-22	9-Oct-22	19-Oct-22	8.54	8.38	8.00	-10.9	4.0	0.5	463	765	502	Boiler Offline 03/10/2022 - 04/10/2022	
10-Oct-22	16-Oct-22	19-Oct-22	7.29	8.35	8.02	-4.8	2.7	-0.1	360	530	476	Boiler Offline 10/10/2022 - 15/10/2022	
17-Oct-22	23-Oct-22	28-Nov-22	3.91	8.10	7.28	-1.1	4.0	1.8	422	571	468	Plant shut down 24/10/2022 - 25/10/2022 - 27/10/2022 - 28/10/2022 - Low pH not a real event. Instrumentation was being worked	
24-Oct-22	30-Oct-22	28-Nov-22	5.00	8.33	7.26	-3.0	4.0	1.5	363	674	471	Plant shut down 24/10/2022 - 25/10/2022 - 27/10/2022 - 28/10/2022 - Low pH not a real event. Instrumentation was being worked	
31-Oct-22	6-Nov-22	18-Nov-22	7.42	8.24	8.05	-8.3	4.0	0.0	308	668	421		
7-Nov-22	13-Nov-22	18-Nov-22	7.03	8.20	8.02	-5.4	4.2	-1.9	151	1033	457		
14-Nov-22	20-Nov-22	28-Nov-22	7.47	8.30	8.06	-5.7	2.7	-1.0	317	1162	439		
21-Nov-22	27-Nov-22	30-Nov-22	7.68	8.36	8.07	-2.5	2.1	0.0	319	1263	461		
28-Nov-22	4-Dec-22	14-Dec-22	7.98	8.43	7.96	-9.4	2.9	-1.6	297	1296	412		
5-Dec-22	11-Dec-22	14-Dec-22	7.30	8.39	8.00	-6.0	4.2	-0.7	265	1296	418		
12-Dec-22	18-Dec-22	25-Jan-23	7.06	8.46	8.00	-8.4	1.4	-1.5	350	732	365	Boiler Offline 19/12/2022 - 18/1/2023	
19-Dec-22	25-Dec-22	25-Jan-23	7.48	8.46	8.05	-10.6	5.5	2.5	0	959	269	Boiler Offline 12/12/2022 - 23/12/2024 - 25/12/2022	
26-Dec-22	1-Jan-23	25-Jan-23	7.36	7.98	7.78	-4.0	8.4	0.7	0	223	6	Boiler Offline 28/12/2022 - 01/01/2023	
2-Jan-23	8-Jan-23	25-Jan-23	7.51	8.46	8.04	-8.8	7.5	-1.0	0	1296	414	Boiler Offline 02/01/2023 - 03/01/2023 - 05/01/2023 - 07/01/2023 - 08/01/2023 - 10/01/2023 - 13/01/2023 - 14/01/2023 - 15/01/2023	
9-Jan-23	15-Jan-23	25-Jan-23	7.88	8.45	8.08	-8.9	3.2	-2.7	311	841	537	Boiler Offline 16/01/2023 - 17/01/2023 - 18/01/2023 - 19/01/2023 - 20/01/2023 - 21/01/2023 - 22/01/2023 - 23/01/2023 - 24/01/2023 - 25/01/2023 - 26/01/2023 - 27/01/2023 - 28/01/2023 - 29/01/2023 - 30/01/2023	
16-Jan-23	22-Jan-23	25-Jan-23	7.35	8.46	8.05	-10.0	4.0	-2.6	36	1269	515	Boiler Offline 30/01/2023 - 02/02/2023	
23-Jan-23	29-Jan-23	8-Feb-23	7.26	8.46	7.99	-9.4	3.7	-1.2	0	1296	378	Boiler Offline 23/01/2023 - 24/01/2023 - 25/01/2023 - 26/01/2023 - 27/01/2023 - 28/01/2023 - 29/01/2023 - 30/01/2023	
30-Jan-23	5-Feb-23	8-Feb-23	7.74	8.44	8.08	-5.2	4.0	0.0	0	1296	0	Boiler Offline 02/02/2023 - 03/02/2023 - 04/02/2023 - 05/02/2023	
6-Feb-23	12-Feb-23	22-Feb-23	7.56	8.45	8.14	-9.6	3.8	0.8	181	774	567	Boiler Offline 06/02/2023 - 10/02/2023 - 11/02/2023 - 12/02/2023	
13-Feb-23	19-Feb-23	22-Feb-23	7.89	8.46	8.11	-11.7	4.0	-1.8	0	1296	505	Boiler Offline 13/02/2023 - 14/02/2023 - 15/02/2023 - 16/02/2023 - 17/02/2023 - 18/02/2023 - 19/02/2023	
20-Feb-23	26-Feb-23	8-Mar-23	7.74	8.45	8.15	-10.8	3.4	-0.6	169	971	573	Boiler Offline 20/02/2023 - 23/02/2023 - 24/02/2023 - 25/02/2023 - 26/02/2023 - 27/02/2023 - 28/02/2023	
27-Feb-23	5-Mar-23	8-Mar-23	8.63	8.45	8.13	-10.4	4.0	-1.7	158	805	536	Boiler Offline 01/03/2023 - 02/03/2023 - 04/03/2023 - 05/03/2023	
6-Mar-23	NA	22-Mar-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	Factory shut down 08/03/2023 - 18/03/2023 for annual shut down	

Sampling Point: Monitoring Point 9 - Cogeneration Cooling Water Discharge

Licence Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424

Parameter/s Monitored See Table

Frequency & Method Weekly Composite (Laboratory Analysis) samples required during periods that the cooling tower is operational only

Limits See Table

Comments A 90 percentile limit means 90% of results must comply with the specified limit. No result may exceed the maximum limit.

Total Residual Chlorine analysis is performed on site immediately from a grab sample. Therefore the results are received on the date of sampling



Date Sampled	Date Received	Date Published	90 Percentile Limit Maximum Limit	BOD ₅	TSS	Phosphorus	Nitrogen	Total Residual Chlorine	Notes
				(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
				30	40	2.5	45	0.3	
				100	100	7.0	70	0.5	
12-Jan-22	20-Jan-22	28-Jan-22		1.0	13.0	0.2	22.5	0.01	
NA	26-Feb-22	22-Apr-22		n/a	n/a	n/a	n/a	n/a	Cooling Tower offline 1/2/22, 12/2/22
NA	26-Feb-22	22-Apr-22		n/a	n/a	n/a	n/a	n/a	Cooling Tower offline 14/2/22, 15/2/22, 16/2/22, 19/2/22, 20/2/22
NA	04-Mar-22	22-Apr-22		2.7	7.0	0.2	17.8	0.02	Cooling Tower offline 21/02/22-28/02/2022
13-Apr-22	20-Apr-22	22-Apr-22		2.7	15.0	0.4	17.8	0.02	Flood damage to plant operations
21-Apr-22	03-May-22	05-May-22		27.4	2.0	0.1	27.4	0.02	Cooling tower offline 01/03/22 to 12/04/22
28-Apr-22	06-May-22	18-May-22		1.8	3.0	0.2	21.6	0.07	
05-May-22	17-May-22	18-May-22		4.8	3.0	0.2	19.8	0.04	
12-May-22	24-May-22	31-May-22		3.0	2.0	0.2	19.0	0.23	
19-May-22	27-May-22	31-May-22		3.9	4.0	0.2	10.1	0.02	
26-May-22	03-Jun-22	17-Jun-22		< 1.0	6.0	0.2	8.4	0.21	
02-Jun-22	20-Jun-22	17-Jun-22		3.0	4.0	0.3	12.7	0.03	
07-Jun-22	21-Jun-22	17-Jun-22		3.0	2.0	0.2	15.4	0.1	
15-Jun-22	28-Jun-22	17-Jun-22		9.3	2.0	0.2	12.6	0.2	
22-Jun-22	28-Jun-22	29-Jun-22		< 1.0	< 1.0	0.2	14.5	0.0	
30-Jun-22	02-Jul-22	15-Apr-22		< 1.0	2.0	0.2	14.0	0.3	
07-Jul-22	08-Jul-22	27-Jul-22		1.5	2.0	0.17	13.3	0.01	
13-Jul-22	19-Jul-22	27-Jul-22		2.1	4.0	0.22	11.2	0.01	
19-Jul-22	26-Jul-22	09-Aug-22		1.5	2.0	0.21	9.54	0.03	
26-Jul-22	02-Aug-22	09-Aug-22		3.9	2.0	0.2	10.7	0.03	
02-Aug-22	10-Aug-22	24-Aug-22		2.7	4.0	0.22	11.8	0.02	
07-Aug-22	23-Aug-22	24-Aug-22		1.5	4.0	0.22	8.43	0.03	
23-Aug-22	31-Aug-22	07-Sep-22		3.6	4.0	0.23	17.0	0.03	
29-Aug-22	06-Sep-22	07-Sep-22		9.0	4.0	0.12	16.6	0.17	
06-Sep-22	15-Sep-22	21-Sep-22		3.0	5.0	0.15	15.2	0.07	
12-Sep-22	21-Sep-22	05-Oct-22		1.2	8.0	1.3	7.7	0.14	
19-Sep-22	29-Sep-22	05-Oct-22		1.8	3.0	1.0	10.5	0.04	
26-Sep-22	11-Oct-22	19-Oct-22		2.4	4.0	1.2	12.8	0.19	
04-Oct-22	11-Oct-22	19-Oct-22		1.8	2.0	2.0	8.6	0.23	
10-Oct-22	18-Oct-22	19-Oct-22		1.5	4.0	1.46	9.73	0.14	
17-Oct-22	26-Oct-22	02-Nov-22		3.3	4	0.28	9.99	0.08	
27-Oct-22	08-Nov-22	16-Nov-22		7.2	22	0.71	22.2	0.02	
31-Oct-22	08-Nov-22	16-Nov-22		1.8	8	0.35	11.7	0.11	
07-Nov-22	15-Nov-22	16-Nov-22		4.8	7	0.23	9.85	0.07	
14-Nov-22	22-Nov-22	30-Nov-22		5.1	5	0.24	22.4	0.06	
21-Nov-22	29-Nov-22	30-Nov-22		4.5	8	0.13	18.9	0.12	
29-Nov-22	07-Dec-22	15-Dec-22		12	5	0.22	32.5	0.07	
07-Dec-22	14-Dec-22	15-Dec-22		4.2	19	0.48	18.1	0.26	
12-Dec-22	21-Dec-22	25-Jan-23		2.1	12	0.3	16.3	0.1	
19-Dec-22	3/01/2023	25-Jan-23		2.1	7	0.33	16.9	0.15	
26-Dec-22									No sample factory shut down
02-Jan-23	04-Jan-23	25-Jan-23		3.6	14	0.42	16.3	0.22	
09-Jan-23	23-Jan-23	25-Jan-23		< 1.0	12	0.76	20.9	0.16	
16-Jan-23	31-Jan-23	08-Feb-23		< 1.0	7	0.44	9.8	0.04	
23-Jan-23	01-Feb-23	08-Feb-23		1.8	7	0.41	9.55	0.14	
30-Jan-23	06-Jun-23	08-Feb-23		< 1.0	8	0.33	8.13	0.22	
06-Feb-23	21-Feb-23	22-Feb-23		< 1.0	10	1.11	7.3	0.15	
13-Feb-23	24-Feb-23	08-Mar-23		< 1.0	8	0.35	14.2	0.16	
20-Feb-23	27-Feb-23	08-Mar-23		< 1.0	10	0.45	11.2	0.16	
27-Feb-23	06-Mar-23	08-Mar-23		< 1.0	6	0.3	14.3	0.17	
06-Mar-23	NA	22/03/2023		NA	NA	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down

Licence
Location
EPL No

Cape Byron Management Pty Ltd
Condong Power Plant
20424



MONITORING REPORT CORRECTIONS LOG

Date / Period	Monitoring Point	Pollutant/Parameter	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
31-Jan-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.93	Min. 2.92 Max. 20.14 Mean 16.44	18-May-22	11-Feb-22	Failed probe identified used back up probe data
7-Feb-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.94	Min. 3.56 Max. 20.54 Mean 12.46	18-May-22	11-Feb-22	Failed probe identified used back up probe data
14-Feb-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.94	Min. 1.97 Max. 20.28 Mean 13.54	18-May-22	25-Feb-22	Failed probe identified used back up probe data
21-Feb-22	9	Oxygen	NA	Min. 1.97 Max. 20.28 Mean 13.54	18-May-22	22-Apr-22	Failed probe identified used back up probe data
11 April - 30 April 22	9	pH Temp O2	None collected	As per sheet	18-Jul-22	01-May-22	Data recoverd from failed hard drive 11-30 April and updated to system on the 18/07/2022