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

Sampling Point:	**Monitoring Point 1 - No 1 Boiler Stack Emissions**
Licencee	Cape Byron Management Pty Ltd
Location	Condong Cogeneration Power Plant
EPL No	20424 www.environment.nsw.gov.au
Parameters Monitored	see individual parameters in table
Frequency & Method	Annually in accordance with EPA protocols
Limits	see individual parameters in table

Results Table

Test Number			AE14632	AE14632	AE14761	AE14992	AE15185	AE15315	AE15396
Sampling Date			14/11/2022	14/12/2022	7/02/2023	18/05/2023	14/09/2023	11/12/2023	17/01/2024
Date Received			25/11/2022	11/01/2023	21/03/2023	2/06/2023	4/10/2023	31/01/2024	12/02/2024
Date Published			30/11/2022	25/01/2023	22/03/2023	14/06/2023	1/11/2023	7/02/2024	21/02/2024
Measured Parameters **dry @ STP and corrected to 7% O_2**	**Units**	**Concentration Limit**							
Average stack gas temperature	°C	Not Applicable	61.70	57.00	59.80	59.60	59.80	58.30	63.30
Average velocity at sampling plane	m/s	Not Applicable	15.80	15.80	15.40	15.40	24.00	20.40	18.90
Dry Gas Volumetric Flowrate	m^3/sec	Not Applicable	67.60	69.75	67.33	61.11	106.60	94.30	82.83
Dry Gas Density	kg/m^3	Not Applicable	1.34	1.34	1.33	1.31	1.34	1.34	1.33
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.00	29.80	29.60	29.30	30.00	30.00	29.90
Moisture content	%	Not Applicable	16.80	16.80	17.1	11.5	15.4	11.4	14.2
Concentration of carbon dioxide	%	Not Applicable	9.85	8.03	5.88	4.27	9.88	9.53	8.66
Total Solid Particles	mg/m^3	100.00	99.40	98.00	29.40	90.00	58.90	70.90	38.80
Sulphuric Acid Mist & Sulphur Trioxide as SO_3	mg/m^3	30.00	6.30	5.33	2.29	2.60	16.30	5.56	7.50
Nitrogen Oxides (NOx)	mg/m^3	500.00	191.00	211.00	156.00	261.00	373.00	271.00	174.00

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	Continous 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
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 beettle
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
03-Apr-23	14-Apr-23	19-Apr-23	3.40	fine org. matter
04-Apr-23	11-May-23	17-May-23	3.88	small spider, fine org. matter
02-Jun-23	07-Jun-23	28-Jun-23	2.75	Fine Organic Matter
03-Jul-23	10-Jul-23	12-Jul-23	6.36	Fine org. matter, cloudy
07-Aug-23	10-Aug-23	23-Aug-23	4.62	Fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	5.08	Ash, fine org. matter, cloudy, brown
03-Oct-23	11-Oct-23	19-Oct-23	4.87	Fine org. matter
02-Nov-23	08-Nov-23	16-Nov-23	2.87	Org. matter, cloudy, brown
04-Dec-23	13-Dec-23	13-Dec-23	6.93	Bugs, algae, fine org. matter
04-Jan-24	12-Jan-24	24-Jan-24	2.64	Dead beetle
05-Feb-24	09-Feb-24	21-Feb-24	9.32	Bugs, fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	1.48	

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
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	
10-Mar-23	14-Apr-23	19-Apr-23	41.1	
16-Mar-23	14-Apr-23	19-Apr-23	28.6	
22-Mar-23	14-Apr-23	19-Apr-23	14.0	
28-Mar-23	14-Apr-23	19-Apr-23	16.3	
03-Apr-23	14-Apr-23	19-Apr-23	9.2	
09-Apr-23	20-Jun-23	28-Jun-23	11.1	
15-Apr-23	20-Jun-23	28-Jun-23	40.6	
21-Apr-23	20-Jun-23	28-Jun-23	47.4	
27-Apr-23	20-Jun-23	28-Jun-23	9.1	
03-May-23	20-Jun-23	28-Jun-23	50.4	
09-May-23	20-Jun-23	28-Jun-23	59.4	
15-May-23	20-Jun-23	28-Jun-23	7.3	
21-May-23	20-Jun-23	28-Jun-23	14.3	
27-May-23	20-Jun-23	28-Jun-23	23.7	
02-Jun-23	20-Jun-23	28-Jun-23	44.9	
08-Jun-23	14-Jul-23	26-Jul-23	18.4	
14-Jun-23	14-Jul-23	26-Jul-23	21.9	
20-Jun-23	14-Jul-23	26-Jul-23	40.8	
26-Jun-23	14-Jul-23	26-Jul-23	12.4	
02-Jul-23	14-Jul-23	26-Jul-23	30.3	
08-Jul-23	21-Aug-23	23-Aug-23	16.3	
14-Jul-23	21-Aug-23	23-Aug-23	31.2	
20-Jul-23	21-Aug-23	23-Aug-23	14.6	
26-Jul-23	21-Aug-23	23-Aug-23	26.7	
01-Aug-23	21-Aug-23	23-Aug-23	37.1	
07-Aug-23	21-Aug-23	23-Aug-23	8.1	
13-Aug-23	18-Sep-23	20-Sep-23	29.2	
19-Aug-23	18-Sep-23	20-Sep-23	25.0	
25-Aug-23	18-Sep-23	20-Sep-23	36.0	
31-Aug-23	18-Sep-23	20-Sep-23	15.3	
06-Sep-23	11-Oct-23	19-Oct-23	15.8	
12-Sep-23	11-Oct-23	19-Oct-23	39.3	
18-Sep-23	11-Oct-23	19-Oct-23	11.5	
24-Sep-23	11-Oct-23	19-Oct-23	24.6	
30-Sep-23	11-Oct-23	19-Oct-23	13.6	
06-Oct-23	16-Nov-23	29-Nov-23	15.9	
12-Oct-23	16-Nov-23	29-Nov-23	31.4	
18-Oct-23	16-Nov-23	29-Nov-23	65.1	
24-Oct-23	16-Nov-23	29-Nov-23	35.7	
30-Oct-23	16-Nov-23	29-Nov-23	NA	Paper damaged on retrieval due to wind gust
05-Nov-23	21-Dec-23	27-Dec-23	10.6	
11-Nov-23	21-Dec-23	27-Dec-23	13.9	
17-Nov-23	21-Dec-23	27-Dec-23	50.5	
23-Nov-23	21-Dec-23	27-Dec-23	17.6	
29-Nov-23	21-Dec-23	27-Dec-23	13.6	
05-Dec-23	21-Dec-23	27-Dec-23	35.7	
11-Dec-23	05-Feb-24	07-Feb-24	17.8	
17-Dec-23	05-Feb-24	07-Feb-24	17.9	
23-Dec-23	05-Feb-24	07-Feb-24	10.7	
29-Dec-23	05-Feb-24	07-Feb-24	14.6	
03-Jan-24	05-Feb-24	07-Feb-24	17.2	
09-Jan-24	05-Feb-24	07-Feb-24	11.0	
15-Jan-24	04-Mar-24	06-Mar-24	11.5	
21-Jan-24	04-Mar-24	06-Mar-24	14.4	
27-Jan-24	04-Mar-24	06-Mar-24	24.4	
02-Feb-24	15-Mar-24	20-Mar-24	22.3	
08-Feb-24	15-Mar-24	20-Mar-24	8.8	
14-Feb-24	15-Mar-24	20-Mar-24	51.7	
20-Feb-24	15-Mar-24	20-Mar-24	22.0	
26-Feb-24	15-Mar-24	20-Mar-24	17.7	

Sampling Point: **Monitoring Point 4 - Ambient Air Monitoring North of Bowling Club**

Licencee Cape Byron Management Pty Ltd

Location Condong Cogeneration Power Plant

EPL No 20424

Parameters Monitored Particulates - Deposited Matter

Monitoring Frequency Continous 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
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
01-Mar-22	NA	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2022
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
03-Apr-23	04-Apr-23	19-Apr-23	0.26	Org. Matter
04-Apr-23	11-May-23	17-May-23	5.40	fine org. matter, cloudy
02-Jun-23	07-Jun-23	28-Jun-23	0.91	dead wasp, fine organic matter
03-Jul-23	10-Jul-23	12-Jul-23	1.80	Bugs, org. matter
03-Jul-23	10-Jul-23	12-Jul-23	2.80	Bugs, org. matter
07-Aug-23	10-Aug-23	23-Aug-23	0.60	Fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	1.70	Spider, algae, fine org. matter
03-Oct-23	11-Oct-23	19-Oct-23	4.09	Spider, algae, fine org. matter
02-Nov-23	08-Nov-23	16-Nov-23	10.89	Fine org. matter, algae, seeds, ants, cloudy, yellow
04-Dec-23	13-Dec-23	13-Dec-23	28.01	Ants, bugs, algae, fine org. matter, cloudy
04-Jan-24	12-Jan-24	24-Jan-24	4.55	Fine org. matter
05-Feb-24	09-Feb-24	21-Feb-24	5.86	Algae, twig fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	1.43	algae, fine org. matter, cloudy, brown

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
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
03-Apr-23	04-Apr-23	22-Mar-23	2.43	Fine Org. Matter
04-Apr-23	11-May-23	17-May-23	1.23	fine org. matter
02-Jun-23	07-Jun-23	28-Jun-23	6.31	Fine org. matter, large org. matter
03-Jul-23	10-Jul-23	12-Jul-23	2.24	Seeds, fine org. matter
07-Aug-23	10-Aug-23	23-Aug-23	2.79	Bark/ spider, fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	3.79	Ash, bugs, fine org. matter, cloudy, brown
03-Oct-23	11-Oct-23	19-Oct-23	4.61	Org. matter, cloudy
02-Nov-23	08-Nov-23	16-Nov-23	5.00	Fine org. matter, grass
04-Dec-23	13-Dec-23	13-Dec-23	10.33	Algae, bugs, org. matter, cloudy, yellow
04-Jan-24	12-Jan-24	24-Jan-24	4.85	Small seeds, fine org. matter, cloudy
05-Feb-24	09-Feb-24	21-Feb-24	3.51	Ants, twig, fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	0.71	

Sampling Point: **Monitoring Point 6 - O_2 Boiler Prior to Primary Air Heater**
Licencee Cape Byron Management Pty Ltd
Location Condong Cogeneration Power Plant
EPL No 20424
Parameter/s 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 (%)			
Date Start	Date Finish	Date Published	Minimum Value	Maximum Value	Mean Value	Notes
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 16/01/2023, 17/01/2023, 18/01/2023, 19/01/2023, 20/01/2023, 22/01/2023
23-Jan-23	29-Jan-23	8-Feb-23	1.93	20.00	16.90	Boiler offline 23/01/2023, 24/01/2023, 24/01/2023, 25/01/2023, 26/01/2023, 27/01/2023, 28/01/2023, 29/01/2023
30-Jan-23	5-Feb-23	8-Feb-23	2.46	19.99	14.02	Boiler offline 30/01/2023, 01/02/2023, 02/02/2023, 03/02/2023, 04/02/2023, 05/02/2023
6-Feb-23	12-Feb-23	22-Feb-23	2.48	20.03	11.00	Boiler offline 06/02/2023, 10/02/2023, 11/02/2023, 12/02/2023
13-Feb-23	19-Feb-23	22-Feb-23	-0.77	20.33	14.88	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	1.73	20.12	11.05	Boiler offline 20/02/2023, 23/02/2023, 24/02/2023, 25/02/2023, 26/02/2023
27-Feb-23	5-Mar-23	8-Mar-23	0.33	20.14	9.52	Boiler offline 27/02/2023, 03/03/2023, 04/03/2023, 05/03/2023
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
20-Mar-23	26-Mar-23	5-Apr-23	0.86	20.00	8.44	Boiler offline 25/03/2023, 26/03/2023
27-Mar-23	2-Apr-23	5-Apr-23	0.86	20.22	8.01	Boiler offline 27/03/2023, 01/04/2023, 02/04/2023
3-Apr-23	9-Apr-23	19-Apr-23	1.60	19.89	10.74	Boiler offline 07/04/2023, 08/04/2023, 09/04/2023
10-Apr-23	16-Apr-23	19-Apr-23	2.38	20.54	11.73	Boiler offline 10/04/2023, 15/04/2023, 16/04/2023
17-Apr-23	23-Apr-23	3-May-23	1.49	19.92	10.06	Boiler offline 21/04/2023, 22/04/2023, 24/04/2023
24-Apr-23	30-Apr-23	3-May-23	1.00	20.21	12.48	Boiler offline 24/04/2023, 25/05/2023, 29/05/2023, 30/05/2023
1-May-23	7-May-23	17-May-23	1.61	20.48	11.11	Boiler offline 01/05/2023, 03/05/2023, 06/05/2023, 07/05/2023
8-May-23	14-May-23	17-May-23	1.92	20.51	11.13	Boiler offline 08/05/2023, 12/05/2023, 13/05/2023
15-May-23	21-May-23	31-May-23	2.92	20.37	17.92	Boiler offline 15/05/2023, 16/05/2023, 17/05/2024, 108/050/2023, 19/05/2023, 20/05/2023, 21/05/2023
22-May-23	28-May-23	31-May-23	1.83	20.41	12.48	Boiler offline 22/05/2023, 23/05/2023, 27/05/2024, 28/05/2023
29-May-23	4-Jun-23	14-Jun-23	2.60	20.42	11.02	Boiler offline 29/05/2023, 30/05/2023, 02/06/2023, 03/06/2023, 04/06/2023
5-Jun-23	11-Jun-23	14-Jun-23	2.32	19.96	10.81	Boiler offline 05/06/2023, 096/06/2023, 10/06/2023, 11/06/2023
12-Jun-23	18-Jun-23	28-Jun-23	-0.77	21.07	15.00	Boiler offline 12/06/2023, 15/06/2023, 16/06/2023, 17/06/2023
19-Jun-23	25-Jun-23	28-Jun-23	1.57	20.62	10.68	Boiler offline 19/06/2023, 23/06/2023, 24/06/2023, 25/06/2023
26-Jun-23	2-Jul-23	12-Jul-23	-0.02	20.35	11.39	Boiler offline 26/06/2023, 30/06/2023, 01/07/2023, 02/07/2024
3-Jul-23	9-Jul-23	12-Jul-23	0.00	20.27	6.61	Boiler offline 03/07/2025, 05/07/2023, 06/07/2023
10-Jul-23	16-Jul-23	26-Jul-23	0.00	6.86	1.94	
17-Jul-23	23-Jul-23	26-Jul-23	0.00	8.66	2.28	
24-Jul-23	30-Jul-23	9-Aug-23	0.00	5.20	1.68	
31-Jul-23	6-Aug-23	9-Aug-23	-0.77	20.38	3.90	Boiler offline 01/08/2023
7-Aug-23	13-Aug-23	23-Aug-23	0.00	13.69	2.04	
14-Aug-23	20-Aug-23	23-Aug-23	0.00	19.85	2.14	Boiler shutdown 17/08/2023 ~12:45-14:15
21-Aug-23	27-Aug-23	6-Sep-23	0.00	7.11	1.89	
28-Aug-23	3-Sep-23	6-Sep-23	0.00	11.79	2.52	
4-Sep-23	10-Sep-23	20-Sep-23	-0.77	20.71	10.01	Boiler shutdown 06/09/2023 - 08/09/2023
11-Sep-23	17-Sep-23	20-Sep-23	0.00	8.79	2.57	
18-Sep-23	24-Sep-23	5-Oct-23	0.00	13.26	3.26	
25-Sep-23	1-Oct-23	5-Oct-23	0.01	19.81	2.96	Boiler shutdown 25/09/2023
2-Oct-23	8-Oct-23	19-Oct-23	0.00	15.70	3.05	
9-Oct-23	15-Oct-23	19-Oct-23	0.00	8.87	3.24	
16-Oct-23	22-Oct-23	1-Nov-23	-0.77	20.38	3.94	Boiler offline 16/10 & 19/10
23-Oct-23	29-Oct-23	1-Nov-23	0.00	20.16	5.10	Boiler offline 28/10 & 29/10
30-Oct-23	5-Nov-23	16-Nov-23	0.01	19.96	7.58	Boiler offline 04/11 & 05/11
6-Nov-23	12-Nov-23	16-Nov-23	1.58	20.20	13.30	Boiler offline 06/11, 07/11, 10/11, 11/11, 12/11
13-Nov-23	19-Nov-23	29-Nov-23	1.24	19.99	11.30	Annual shutdown boiler offline 13/11 - 19/11
20-Nov-23	26-Nov-23	29-Nov-23	No data	No data	No data	Annual shutdown boiler offline 20/11 - 26/11
27-Dec-23	3-Dec-23	13-Dec-23	No data	No data	No data	Annual shutdown boiler offline 27/11 - 03/12
4-Dec-23	10-Dec-23	13-Dec-23	1.21	20.11	5.37	Boiler startup at 0500 hrs
11-Dec-23	17-Dec-23	27-Dec-23	1.07	11.69	4.80	
18-Dec-23	24-Dec-23	27-Dec-23	1.50	20.11	12.79	Boiler shutdown 21/12 - 0730
25-Dec-23	31-Dec-23	10-Jan-24	19.78	20.07	19.91	Boiler shutdown 21/12 - 31/12
1-Jan-24	7-Jan-24	10-Jan-24	2.51	20.25	12.79	Boiler shutdown 01/01 - 02/01- 0500 hrs
8-Jan-24	14-Jan-24	24-Jan-24	1.08	20.06	9.28	Boiler shutdown 12/01-22:00 - 14/01-00:00 hrs
15-Jan-24	21-Jan-24	24-Jan-24	-0.77	19.93	11.02	Boiler shutdown 19/01-22:00 - 21/01-00:00 hrs
22-Jan-24	28-Jan-24	7-Feb-24	1.65	19.59	10.27	Boiler shutdown 26/01 - 29/01
29-Jan-24	4-Feb-24	7-Feb-24	1.47	19.88	13.65	Boiler shutdown 31/01 - 04/02
5-Feb-24	11-Feb-24	21-Feb-24	1.19	19.88	10.95	Boiler shutdown 09/02 -12/02
12-Feb-24	18-Feb-24	21-Feb-24	1.61	19.77	11.61	Boiler shutdown 16/02 - 19/02
19-Feb-24	25-Feb-24	6-Mar-24	1.32	20.02	10.31	Boiler shutdown 23/02 - 26/02
26-Feb-24	3-Mar-24	6-Mar-24	0.80	19.83	11.71	Boiler shutdown 01/03 - 04/04
4-Mar-24	10-Mar-24	20-Mar-24	2.28	19.82	10.65	Boiler shutdown 08/03 - 10/03
11-Mar-24	17-Mar-24	20-Mar-24	1.48	20.21	11.59	Boiler shutdown 15/03 - 17/03
18-Mar-24	24-Mar-24	3-Apr-24	1.85	20.05	14.22	Boiler shutdown 22/03 - 24/04
25-Mar-24	31-Mar-24	3-Apr-24	1.96	20.03	12.09	Boiler shutdown 29/03 - 02/04
1-Apr-24	7-Apr-24	17-Apr-24	2.17	19.97	14.42	Boiler shutdown 05/04/-05/04
8-Apr-24	14-Apr-24	17-Apr-24	2.04	19.99	10.65	Boiler shutdown 12/04/-15/04

Sampling Point: **Monitoring Point 8 - Injection Water Inlet, Background River Water Temperature**

Licencee: Cape Byron Management Pty Ltd
Location: Condong Cogeneration Power Plant
EPL No: 20424
Parameters Monitored: Temperature (ºC)
Frequency & Method: Fortnightly Representative Sample
Limit/s: 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 (ºC)	Notes
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	
27-Mar-23	05-Apr-23	30.5	
3-Apr-23	05-Apr-23	30.5	
10-Apr-23	19-Apr-23	30.5	
17-Apr-23	19-Apr-23	30.5	
24-Apr-23	03-May-23	30.5	
1-May-23	03-May-23	30.5	
8-May-23	17-May-23	30.5	
18-May-23	31-May-23	19.0	
4-Jun-23	14-Jun-23	19.0	
7-Jun-23	14-Jun-23	22.5	
12-Jun-23	14-Jun-23	20.0	
14-Jun-23	21-Jun-23	20.0	
21-Jun-23	26-Jun-23	20.0	
26-Jun-23	03-Jul-23	20.0	
3-Jul-23	09-Jul-23	21.5	
10-Jul-23	26-Jul-23	21.5	
17-Jul-23	26-Jul-23	21.5	
24-Jul-23	09-Aug-23	21.5	
30-Jul-23	09-Aug-23	21.5	
14-Aug-23	23-Aug-23	24.5	
20-Aug-23	23-Aug-23	24.5	
4-Sep-23	20-Sep-23	24.5	
16-Sep-23	20-Sep-23	24.5	
21-Sep-23	04-Oct-23	24.5	
14-Oct-23	19-Oct-23	24.5	
24-Oct-23	29-Oct-23	28.0	
30-Oct-23	16-Nov-23	28.0	
5-Nov-23	16-Nov-23	28.0	
17-Nov-23	26-Nov-23	28.0	
27-Nov-23	13-Dec-23	28.0	
3-Dec-23	13-Dec-23	28.0	
6-Dec-23	13-Dec-23	30.0	
11-Dec-23	27-Dec-23	29.5	
16-Dec-23	28-Dec-23	29.5	
17-Dec-23	29-Dec-23	29.5	
25-Dec-23	30-Dec-23	29.5	
31-Dec-23	07-Jan-24	29.5	
8-Jan-24	14-Jan-24	29.5	
15-Jan-24	16-Jan-24	26.0	
17-Jan-24	21-Jan-24	26.0	
21-Jan-24	21-Jan-24	29.5	
28-Jan-24	07-Feb-24	29.5	
4-Feb-24	07-Feb-24	27.0	
8-Feb-24	18-Feb-24	29.5	
19-Feb-24	03-Mar-24	29.5	
4-Mar-24	17-Mar-24	29.5	
18-Mar-24	31-Mar-24	29.5	
1-Apr-24	14-Apr-24	29.5	

Sampling Point: **Monitoring Point 11 - Stockpile Stormwater Discharge**
Licencee Cape Byron Management Pty Ltd
Location Condong Cogeneration Power Plant
EPL No 20424
Parameter/s Monitored Rainfall
Frequency & Method Continuous Auto Sampler

TIPPING GUAGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Monday, 1 January 2024	9:01am	Tuesday, 2 January 2024	9:00am	64.4	2.2
Tuesday, 2 January 2024	9:01am	Wednesday, 3 January 2024	9:00am	43.4	2.4
Wednesday, 3 January 2024	9:01am	Thursday, 4 January 2024	9:00am	0.2	0.2
Thursday, 4 January 2024	9:01am	Friday, 5 January 2024	9:00am	0.0	0.0
Friday, 5 January 2024	9:01am	Saturday, 6 January 2024	9:00am	0.0	0.0
Saturday, 6 January 2024	9:01am	Sunday, 7 January 2024	9:00am	1.0	0.4
Sunday, 7 January 2024	9:01am	Monday, 8 January 2024	9:00am	0.4	0.2
Monday, 8 January 2024	9:01am	Tuesday, 9 January 2024	9:00am	4.2	0.2
Tuesday, 9 January 2024	9:01am	Wednesday, 10 January 2024	9:00am	59.2	1.4
Wednesday, 10 January 2024	9:01am	Thursday, 11 January 2024	9:00am	2.0	0.2
Thursday, 11 January 2024	9:01am	Friday, 12 January 2024	9:00am	0.0	0.0
Friday, 12 January 2024	9:01am	Saturday, 13 January 2024	9:00am	4.6	0.6
Saturday, 13 January 2024	9:01am	Sunday, 14 January 2024	9:00am	1.6	0.2
Sunday, 14 January 2024	9:01am	Monday, 15 January 2024	9:00am	0.0	0.0
Monday, 15 January 2024	9:01am	Tuesday, 16 January 2024	9:00am	3.4	0.6
Tuesday, 16 January 2024	9:01am	Wednesday, 17 January 2024	9:00am	110.8	1.2
Wednesday, 17 January 2024	9:01am	Thursday, 18 January 2024	9:00am	50.4	0.8
Thursday, 18 January 2024	9:01am	Friday, 19 January 2024	9:00am	1.0	0.2
Friday, 19 January 2024	9:01am	Saturday, 20 January 2024	9:00am	9.0	0.2
Saturday, 20 January 2024	9:01am	Sunday, 21 January 2024	9:00am	0.4	0.2
Sunday, 21 January 2024	9:01am	Monday, 22 January 2024	9:00am	0.0	0.0
Monday, 22 January 2024	9:01am	Tuesday, 23 January 2024	9:00am	0.0	0.0
Tuesday, 23 January 2024	9:01am	Wednesday, 24 January 2024	9:00am	0.0	0.0
Wednesday, 24 January 2024	9:01am	Thursday, 25 January 2024	9:00am	0.0	0.0
Thursday, 25 January 2024	9:01am	Friday, 26 January 2024	9:00am	0.0	0.0
Friday, 26 January 2024	9:01am	Saturday, 27 January 2024	9:00am	0.0	0.0
Saturday, 27 January 2024	9:01am	Sunday, 28 January 2024	9:00am	0.0	0.0
Sunday, 28 January 2024	9:01am	Monday, 29 January 2024	9:00am	10.2	0.2
Monday, 29 January 2024	9:01am	Tuesday, 30 January 2024	9:00am	8.6	0.4
Tuesday, 30 January 2024	9:01am	Wednesday, 31 January 2024	9:00am	10.2	0.6
Wednesday, 31 January 2024	9:01am	Thursday, 1 February 2024	9:00am	0.4	0.2
Thursday, 1 February 2024	9:01am	Friday, 2 February 2024	9:00am	1.6	0.4
Friday, 2 February 2024	9:01am	Saturday, 3 February 2024	9:00am	0.0	0.0
Saturday, 3 February 2024	9:01am	Sunday, 4 February 2024	9:00am	0.0	0.0
Sunday, 4 February 2024	9:01am	Monday, 5 February 2024	9:00am	1.0	0.2
Monday, 5 February 2024	9:01am	Tuesday, 6 February 2024	9:00am	0.2	0.2
Tuesday, 6 February 2024	9:01am	Wednesday, 7 February 2024	9:00am	0.0	0.0
Wednesday, 7 February 2024	9:01am	Thursday, 8 February 2024	9:00am	0.0	0.0
Thursday, 8 February 2024	9:01am	Friday, 9 February 2024	9:00am	22.6	0.4
Friday, 9 February 2024	9:01am	Saturday, 10 February 2024	9:00am	8.0	0.2
Saturday, 10 February 2024	9:01am	Sunday, 11 February 2024	9:00am	4.2	0.2
Sunday, 11 February 2024	9:01am	Monday, 12 February 2024	9:00am	16.8	0.6
Monday, 12 February 2024	9:01am	Tuesday, 13 February 2024	9:00am	2.2	0.4
Tuesday, 13 February 2024	9:01am	Wednesday, 14 February 2024	9:00am	0.6	0.2
Wednesday, 14 February 2024	9:01am	Thursday, 15 February 2024	9:00am	0.0	0.0
Thursday, 15 February 2024	9:01am	Friday, 16 February 2024	9:00am	0.0	0.0
Friday, 16 February 2024	9:01am	Saturday, 17 February 2024	9:00am	55.0	1.2
Saturday, 17 February 2024	9:01am	Sunday, 18 February 2024	9:00am	15.8	1.2
Sunday, 18 February 2024	9:01am	Monday, 19 February 2024	9:00am	1.6	0.6
Monday, 19 February 2024	9:01am	Tuesday, 20 February 2024	9:00am	2.0	0.2
Tuesday, 20 February 2024	9:01am	Wednesday, 21 February 2024	9:00am	23.6	3.0
Wednesday, 21 February 2024	9:01am	Thursday, 22 February 2024	9:00am	1.4	0.4
Thursday, 22 February 2024	9:01am	Friday, 23 February 2024	9:00am	0.0	0.0
Friday, 23 February 2024	9:01am	Saturday, 24 February 2024	9:00am	0.0	0.0
Saturday, 24 February 2024	9:01am	Sunday, 25 February 2024	9:00am	0.0	0.0
Sunday, 25 February 2024	9:01am	Monday, 26 February 2024	9:00am	11.0	0.8
Monday, 26 February 2024	9:01am	Tuesday, 27 February 2024	9:00am	13.2	1.0
Tuesday, 27 February 2024	9:01am	Wednesday, 28 February 2024	9:00am	0.0	0.0

Sampling Point: **Monitoring Point 11 - Stockpile Stormwater Discharge**
Licencee Cape Byron Management Pty Ltd
Location Condong Cogeneration Power Plant
EPL No 20424
Parameter/s Monitored Rainfall
Frequency & Method Continuous Auto Sampler

TIPPING GUAGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Wednesday, 28 February 2024	9:01am	Thursday, 29 February 2024	9:00am	0.0	0.0
Thursday, 29 February 2024	9:01am	Friday, 1 March 2024	9:00am	0.0	0.0
Friday, 1 March 2024	9:01am	Saturday, 2 March 2024	9:00am	0.0	0.0
Saturday, 2 March 2024	9:01am	Sunday, 3 March 2024	9:00am	0.0	0.0
Sunday, 3 March 2024	9:01am	Monday, 4 March 2024	9:00am	0.0	0.0
Monday, 4 March 2024	9:01am	Tuesday, 5 March 2024	9:00am	2.6	0.6
Tuesday, 5 March 2024	9:01am	Wednesday, 6 March 2024	9:00am	31.4	1.4
Wednesday, 6 March 2024	9:01am	Thursday, 7 March 2024	9:00am	1.0	0.4
Thursday, 7 March 2024	9:01am	Friday, 8 March 2024	9:00am	0.0	0.0
Friday, 8 March 2024	9:01am	Saturday, 9 March 2024	9:00am	1.8	0.4
Saturday, 9 March 2024	9:01am	Sunday, 10 March 2024	9:00am	2.4	0.4
Sunday, 10 March 2024	9:01am	Monday, 11 March 2024	9:00am	0.0	0.0
Monday, 11 March 2024	9:01am	Tuesday, 12 March 2024	9:00am	0.4	0.2
Tuesday, 12 March 2024	9:01am	Wednesday, 13 March 2024	9:00am	5.0	0.6
Wednesday, 13 March 2024	9:01am	Thursday, 14 March 2024	9:00am	0.6	0.2
Thursday, 14 March 2024	9:01am	Friday, 15 March 2024	9:00am	0.0	0.0
Friday, 15 March 2024	9:01am	Saturday, 16 March 2024	9:00am	0.0	0.0
Saturday, 16 March 2024	9:01am	Sunday, 17 March 2024	9:00am	13.4	0.6
Sunday, 17 March 2024	9:01am	Monday, 18 March 2024	9:00am	2.4	0.2
Monday, 18 March 2024	9:01am	Tuesday, 19 March 2024	9:00am	8.6	0.4
Tuesday, 19 March 2024	9:01am	Wednesday, 20 March 2024	9:00am	7.8	0.2
Wednesday, 20 March 2024	9:01am	Thursday, 21 March 2024	9:00am	7.4	0.8
Thursday, 21 March 2024	9:01am	Friday, 22 March 2024	9:00am	4.2	0.2
Friday, 22 March 2024	9:01am	Saturday, 23 March 2024	9:00am	1.4	0.2
Saturday, 23 March 2024	9:01am	Sunday, 24 March 2024	9:00am	0.0	0.0
Sunday, 24 March 2024	9:01am	Monday, 25 March 2024	9:00am	0.0	0.0
Monday, 25 March 2024	9:01am	Tuesday, 26 March 2024	9:00am	10.8	0.2
Tuesday, 26 March 2024	9:01am	Wednesday, 27 March 2024	9:00am	4.2	0.2
Wednesday, 27 March 2024	9:01am	Thursday, 28 March 2024	9:00am	47.0	0.4
Thursday, 28 March 2024	9:01am	Friday, 29 March 2024	9:00am	1.6	0.2
Friday, 29 March 2024	9:01am	Saturday, 30 March 2024	9:00am	0.8	0.2
Saturday, 30 March 2024	9:01am	Sunday, 31 March 2024	9:00am	11.8	0.8
Sunday, 31 March 2024	9:01am	Monday, 1 April 2024	9:00am	0.0	0.0
Monday, 1 April 2024	9:01am	Tuesday, 2 April 2024	9:00am	0.0	0.0
Tuesday, 2 April 2024	9:01am	Wednesday, 3 April 2024	9:00am	0.0	0.0
Wednesday, 3 April 2024	9:01am	Thursday, 4 April 2024	9:00am	0.0	0.0
Thursday, 4 April 2024	9:01am	Friday, 5 April 2024	9:00am	38.0	0.8
Friday, 5 April 2024	9:01am	Saturday, 6 April 2024	9:00am	15.0	0.4
Saturday, 6 April 2024	9:01am	Sunday, 7 April 2024	9:00am	12.0	0.2
Sunday, 7 April 2024	9:01am	Monday, 8 April 2024	9:00am	44.4	1.2
Monday, 8 April 2024	9:01am	Tuesday, 9 April 2024	9:00am	3.0	0.6
Tuesday, 9 April 2024	9:01am	Wednesday, 10 April 2024	9:00am	0.0	0.0
Wednesday, 10 April 2024	9:01am	Thursday, 11 April 2024	9:00am	0.0	0.0
Thursday, 11 April 2024	9:01am	Friday, 12 April 2024	9:00am	0.0	0.0
Friday, 12 April 2024	9:01am	Saturday, 13 April 2024	9:00am	0.0	0.0
Saturday, 13 April 2024	9:01am	Sunday, 14 April 2024	9:00am	0.0	0.0
Sunday, 14 April 2024	9:01am	Monday, 15 April 2024	9:00am	0.0	0.0
Monday, 15 April 2024	9:01am	Tuesday, 16 April 2024	9:00am	0.0	0.0

Sampling Point: **Monitoring Point 9 - Cogeneration Cooling Water Discharge**
Licencee 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

				BOD_5 (mg/L)	TSS (mg/L)	Phosphorus (mg/L)	Nitrogen (mg/L)	Total Residual Chlorine (mg/L)	
Date Sampled	**Date Received**	**Date Published**	**90 Percentile Limit**	**30**	**40**	**2.5**	**45**	**0.3**	**Notes**
			Maximum Limit	**100**	**100**	**7.0**	**70**	**2.5**	
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-Mar-23		NA	NA	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down
20-Mar-23	03-Apr-23	05-Apr-23		5.1	24	0.33	14.4	0.1	
27-Mar-23	04-Apr-23	05-Apr-23		<1.0	5	0.32	15.8	0.03	
03-Apr-23	12-Apr-23	19-Apr-23		2.1	5	0.24	16.2	0.14	
11-Apr-23	18-Apr-23	19-Apr-23		<1.0	9	0.3	19.3	0.19	
20-Apr-23	28-May-23	03-May-23		1.2	5	0.24	16.7	0.08	
01-May-23	10-May-23	17-May-23		<1.0	3	0.25	10.5	0.16	
08-May-23	19-May-23	31-May-23		<0.1	7	0.27	14.1	0.27	
15-May-23	23-May-23	31-May-23		2.1	3	0.25	16.7	0.16	
29-May-23	07-Jun-23	14-Jun-23		2.7	2	0.38	10.4	0.12	
05-Jun-23	13-Jun-23	14-Jun-23		<1.0	7	0.32	14.5	0.3	
13-Jun-23	22-Jun-23	28-Jun-23		<1.0	3	0.36	10.6	0.21	
26-Jun-23	03-Jul-23	12-Jul-23		3.9	3	0.21	7.09	0.11	
03-Jul-23	13-Jul-23	26-Jul-23		2.7	3	0.23	7.04	0.01	
10-Jul-23	21-Jul-23	26-Jul-23		3.3	2	0.23	9.5	0.01	
19-Jul-23	27-Jul-23	09-Aug-23		2.7	2	0.43	14	0.03	
24-Jul-23	31-Jul-23	09-Aug-23		3.9	3	0.35	12.1	0.18	
31-Jul-23	07-Aug-23	09-Aug-23		<1.0	3	0.36	13.6	0.12	
07-Aug-23	16-Aug-23	23-Aug-23		2.4	1	0.44	10.4	0.11	
16-Aug-23	16-Aug-23	23-Aug-23		1.8	7	0.33	10.1	0.03	
21-Aug-23	29-Aug-23	06-Sep-23		10	2	1.39	10.5	0.05	
28-Aug-23	05-Sep-23	20-Sep-23		2.4	4	1.05	9.21	0.12	
04-Sep-23	13-Sep-23	20-Sep-23		3.3	3	1.21	9.25	0.13	
18-Sep-23	26-Sep-23	05-Oct-23		2.4	9	0.42	9.2	0.08	
25-Sep-23	04-Oct-23	05-Oct-23		2.4	9	0.43	10.7	0.11	
03-Oct-23	10-Oct-23	19-Oct-23		5.1	8	1.87	14.8	0.05	
09-Oct-23	17-Oct-23	19-Oct-23		<1.0	9	1.78	6.8	0.1	
16-Oct-23	23-Oct-23	01-Nov-23		3	15	1.31	17.1	0.07	
23-Oct-23	30-Oct-23	01-Nov-23		4.6	37	2.22	24.4	0.06	
30-Oct-23	13-Nov-23	16-Nov-23		4.5	19	1.51	13.2	0.04	
06-Nov-23	13-Nov-23	16-Nov-23		4.5	11	2.03	12	0.04	
13-Nov-23	21-Nov-23	29-Nov-23		1.5	20	1.19	12.2	0.11	
20-Nov-23	NA	NA		NA	NA	NA	NA	NA	Annual shutdown 20/11 - 03/12/2023
04-Dec-23	13-Dec-23	13-Dec-23		3.3	24	0.7	4.64	0.09	
13-Dec-23	20-Dec-23	27-Dec-23		1.2	11	0.39	5.02	0.12	
18-Dec-23	27-Dec-23	24-Jan-24		2.4	10	0.25	6.03	0.04	
04-Jan-24	04-Jan-24	24-Jan-24		<1.0	5	0.35	5.32	0.09	
08-Jan-24	08-Jan-24	24-Jan-24		1.5	6	0.38	6.3	0.11	
15-Jan-24	15-Jan-24	07-Feb-24		1.5	5	0.52	9.11	0.29	
22-Jan-24	22-Jan-24	21-Feb-24		<1.0	7	0.85	5.24	0.22	
30-Jan-24	30-Jan-24	21-Feb-24		1.2	9	0.44	5.76	0.18	
06-Feb-24	06-Feb-24	21-Feb-24		3.6	12	0.62	6.39	0.3	
15-Feb-24	19-Feb-24	06-Mar-24		1.5	6	0.99	4.35	0.11	
19-Feb-24	19-Feb-24	06-Mar-24		2.7	5	0.97	4.26	0.17	
28-Feb-24	06-Mar-24	20-Mar-24		<1.0	5	0.41	8.92	0.12	
04-Mar-24	13-Mar-24	20-Mar-24		2.1	9	0.6	4.95	0.05	
11-Mar-24	20-Mar-24	03-Apr-24		3.9	10	0.41	6.94	0.06	
20-Mar-24	20-Mar-24	03-Apr-24		1.5	4	0.29	10.2	0.24	
25-Mar-24	25-Mar-24	03-Apr-24		1.5	8	0.4	9.21	0.07	
03-Apr-24								0.3	
11-Apr-24								0.07	

Sampling Point: **Monitoring Point 9 - Cogeneration Cooling Water Discharge**

Licencee: Cape Byron Management Pty Ltd

Location: Condong Cogeneration Power Plant

EPL No: 20434

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 limit.
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

Temperature: > 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 this difference between the discharge and river temp.

			pH			Temperature Difference			Volume			
			Limit/s	Minimum	6.5	Limit/s	90th Percentile	t°C > background	Limit/s	Not Prescribed		
MONITORING PERIOD				Maximum	8.5		Maximum	t°C > background	kL/Day			
Date Start	Date Finish	Date Published	Minimum Reading	Maximum Reading	Mean of Readings	Minimum Temp Diff	Maximum Temp Diff	Mean Temp Diff	Minimum Daily Discharge	Maximum Daily Discharge	Mean Daily Discharge	Notes
2-Jan-23	8-Jan-23	25-Jan-23	7.51	8.49	8.04	-9.8	7.3	-1.0	0	1296	414	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	7.68	8.45	8.08	-9.9	3.2	-2.7	311	844	537	Boiler offline 13/01/2023, 15/01/2023, 11/01/2023, 12/01/2023, 14/01/2023, 15/01/2023
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 01/01/2023, 17/01/2023, 19/01/2023, 18/01/2023, 20/01/2023, 22/01/2023
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, 26/01/2023, 25/01/2023, 28/01/2023, 27/01/2023, 29/01/2023,
30-Jan-23	5-Feb-23	8-Feb-23	7.74	8.44	8.08	-5.2	4.0	0.0	0	1296		Boiler offline 30/01/2023, 01/02/2023, 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	7.69	8.46	8.11	-11.7	4.0	-1.8	0	1296	555	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	523	Boiler offline 20/02/2023, 23/02/2023, 24/02/2023, 25/02/2023, 26/02/2023
27-Feb-23	5-Mar-23	8-Mar-23	6.63	8.45	8.13	-10.4	4.0	-1.7	158	805	536	Boiler offline 27/02/2023, 03/03/2023, 04/03/2023, 05/03/2023
6-Mar-23	NA	22-Mar-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	Factory/coal down 06/03/2023-19/03/2023 for annual shut down
20-Mar-23	26-Mar-23	5-Apr-23	7.70	8.41	8.08	-9.5	2.3	-0.8	373	807	575	Boiler offline 25/03/2023, 26/03/2023
27-Mar-23	2-Apr-23	5-Apr-23	7.42	8.42	8.08	-9.9	1.7	-0.8	414	784	579	Boiler offline 27/03/2023, 01/04/2023, 02/03/2023
3-Apr-23	9-Apr-23	19-Apr-23	7.65	8.43	8.06	-16.3	-0.3	-2.3	307	897	531	Boiler offline 07/04/2023, 09/04/2023, 09/04/2023
10-Apr-23	16-Apr-23	19-Apr-23	6.57	8.46	8.00	-17.1	-1.2	-5.1	321	647	512	Boiler offline 10/04/2023, 15/04/2023, 16/04/2023
17-Apr-23	23-Apr-23	3-May-23	7.59	8.49	8.05	-14.2	-0.1	-3.4	17	1229	519	Boiler offline 21/04/2023, 22/04/2023, 23/04/2023
24-Apr-23	30-Apr-23	3-May-23	7.65	8.50	8.08	-14.3	-1.5	-6.4	0	711	425	Boiler offline 24/04/2023, 29/04/2023, 26/03/2023, 30/04/2019
1-May-23	7-May-23	16-May-23	7.30	8.37	8.05	-17.6	-2.3	-8.2	257	1006	430	Boiler offline 01/05/2023, 03/05/2023, 06/05/2023, 07/05/2019
8-May-23	14-May-23	16-May-23	7.31	8.43	8.06	-19.4	-3.2	-9.0	280	670	437	Boiler offline 08/05/2023, 12/05/2023, 13/05/2023
15-May-23	21-May-23	31-May-23	7.48	8.45	8.01	-19.4	4.0	-8.9	0	1165	285	Boiler offline 15/05/2023, 16/05/2023, 17/05/2234, 19/05/09:05, 19/05/2023, 20/05/2023, 21/05/2023
22-May-23	28-May-23	31-May-23	7.48	8.45	8.01	-19.4	4.0	-8.9	0	1165	285	Boiler offline 22/05/2023, 23/05/2023, 27/05/2034, 28/05/2023
29-May-23	4-Jun-23	14-Jun-23	7.29	8.35	8.05	-11.1	4.0	-0.3	74	860	504	Boiler offline 29/05/2023, 30/05/2023, 02/06/2023, 03/06/2023, 04/06/2023
5-Jun-23	11-Jun-23	14-Jun-23	7.66	8.33	8.06	-12.6	4.3	-1.0	0	1160	623	Boiler offline 05/06/2023, 09/06/2023, 10/06/2023, 11/06/2023
12-Jun-23	18-Jun-23	28-Jun-23	7.37	8.33	7.95	-12.7	4.0	-0.5	0	1087	528	Boiler offline 13/06/2023, 15/06/2023, 16/06/2023, 17/06/2023
19-Jun-23	25-Jun-23	28-Jun-23	7.53	8.32	8.03	-12.2	4.3	-3.0	385	1194	654	Boiler offline 19/06/2023, 23/06/2023, 24/06/2023, 25/06/2023
26-Jun-23	2-Jul-23	12-Jul-23	7.39	8.39	8.03	-12.4	4.0	-1.5	408	923	691	Boiler offline 26/06/2023, 30/06/2023, 01/07/2023, 02/07/2024
3-Jul-23	9-Jul-23	12-Jul-23	7.39	8.33	8.02	-12.4	4.0	-2.3	488	844	680	Boiler offline 03/07/2023, 05/07/2023, 06/07/2025
10-Jul-23	16-Jul-23	26-Jul-23	7.31	8.32	8.06	-4.0	3.6	-0.2	53	1048	594	
17-Jul-23	23-Jul-23	26-Jul-23	7.44	8.46	8.05	-3.5	4.0	0.0	236	812	686	
24-Jul-23	30-Jul-23	9-Aug-23	7.31	8.33	8.04	-2.8	3.1	0.3	9	961	609	
31-Jul-23	6-Aug-23	9-Aug-23	7.38	8.32	8.05	-8.0	4.0	0.5	0	829	572	Boiler offline 01/08/2023
7-Aug-23	13-Aug-23	23-Aug-23	7.12	8.44	8.03	-2.8	4.0	1.3	2	1033	634	
14-Aug-23	20-Aug-23	23-Aug-23	7.15	8.36	8.05	-6.4	4.0	-1.1	1	1031	598	Boiler shutdown 17/08/2023 ~12:45-14:15
21-Aug-23	27-Aug-23	6-Sep-23	7.59	8.37	8.07	-4.7	0.8	-1.7	3	1078	450	
28-Aug-23	3-Sep-23	6-Sep-23	6.64	8.44	8.07	-4.5	3.9	-1.5	0	1299	435	
4-Sep-23	10-Sep-23	20-Sep-23	7.42	8.46	8.09	-10.9	2.6	-2.5	0	1299	382	Boiler shutdown 06/09/2023 - 08/09/2023
11-Sep-23	17-Sep-23	20-Sep-23	7.47	8.47	8.06	-3.4	1.9	-1.1	0	1145	449	
18-Sep-23	24-Sep-23	5-Oct-23	7.47	8.32	8.05	-4.7	2.3	-0.8	0	1299	429	
25-Sep-23	1-Oct-23	5-Oct-23	7.50	8.45	8.05	-7.5	3.3	-0.2	0	1114	422	Boiler shutdown 25/09/2023
2-Oct-23	8-Oct-23	19-Oct-23	7.63	8.45	8.05	-3.4	2.3	0.2	0	1272	411	
9-Oct-23	15-Oct-23	19-Oct-23	7.34	8.27	8.05	-4.4	3.2	0.2	298	1099	413	
16-Oct-23	22-Oct-23	1-Nov-23	7.58	8.42	8.02	-7.4	3.6	0.1	0	1296	369	Boiler offline 16/10 & 19/10
23-Oct-23	29-Oct-23	1-Nov-23	6.65	8.36	7.99	-13.1	4.0	-2.4	42	1296	380	Boiler offline 26/10 & 29/10
30-Oct-23	5-Nov-23	16-Nov-23	7.21	8.26	7.99	-10.8	0.2	-4.2	0	1286	322	Boiler offline 03/11 & 05/11
6-Nov-23	12-Nov-23	16-Nov-23	7.11	8.47	13.30	-13.2	4.0	-5.5	0	591	351	Boiler offline 09/11, 07/11, 10/11, 11/11, 12/11
13-Nov-23	19-Nov-23	29-Nov-23	7.27	8.47	8.05	-13.4	4.4	-1.9	0	1296	407	Annual shutdown boiler offline 13/11 - 19/11
20-Nov-23	26-Nov-23	29-Nov-23	No data	No data	No data	No data	No data	No data	No data	No data	No data	Annual shutdown boiler offline 20/11 - 26/11
27-Nov-23	3-Dec-23	13-Dec-23	No data	No data	No data	No data	No data	No data	No data	No data	No data	Annual shutdown boiler offline 27/11 - 03/12
4-Dec-23	10-Dec-23	13-Dec-23	7.43	8.42	8.06	-7.0	4.5	1.7	0	793	615	Boiler startup at 0000 hrs
11-Dec-23	17-Dec-23	27-Dec-23	7.52	8.46	8.06	0.1	3.8	1.9	12	710	559	
18-Dec-23	24-Dec-23	27-Dec-23	7.48	8.46	8.04	-10.5	3.6	-0.7	0	676	340	Boiler shutdown 21/12 - 2730
25-Dec-23	31-Dec-23	10-Jan-24	No data	No data	No data	No data	No data	No data	No data	No data	No data	Boiler shutdown 31/12 - 01/12
1-Jan-24	7-Jan-24	10-Jan-24	6.58	8.45	7.89	-8.8	2.2	-1.3	198	839	495	Boiler shutdown 01/01 - 0201 - 0930 hrs
8-Jan-24	14-Jan-24	24-Jan-24	6.79	8.40	8.05	-8.8	3.5	1.1	0	865	648	Boiler shutdown 12/01-22:00 - 14/01-05:00 hrs
15-Jan-24	21-Jan-24	24-Jan-24	7.52	8.48	8.02	-3.6	4.7	0.1	0	1012	594	Boiler shutdown 19/01-22:00 - 21/01-05:00 hrs
22-Jan-24	28-Jan-24	7-Feb-24	7.52	8.44	8.04	-4.4	4.7	0.9	0	810	601	Boiler shutdown 26/01 - 29/01
29-Jan-24	4-Feb-24	7-Feb-24	7.35	8.41	7.97	-5.4	5.7	-1.7	0	791	494	Boiler shutdown 31/01 - 0202 Temperature exclusion due to a faulty valve
5-Feb-24	11-Feb-24	21-Feb-24	7.53	8.44	8.04	-7.6	5.3	-0.9	0	1291	529	Boiler shutdown 0502 - 1202, 22 second temperature exclusion due to a faulty valve
12-Feb-24	18-Feb-24	21-Feb-24	7.42	8.39	8.03	-9.0	3.5	-0.4	0	1255	423	Boiler shutdown 1602 - 1902
19-Feb-24	25-Feb-24	6-Mar-24	6.65	8.46	7.97	-9.3	4.2	0.2	0	923	465	Boiler shutdown 2302 - 2602
26-Feb-24	3-Mar-24	6-Mar-24	6.84	8.47	8.01	-6.9	3.6	-0.8	0	913	501	Boiler shutdown 01/03 - 04/03
4-Mar-24	10-Mar-24	20-Mar-24	7.52	8.45	8.07	-10.8	3.4	-1.3	0	833	484	Boiler shutdown 08/03 - 10/03
11-Mar-24	17-Mar-24	20-Mar-24	7.22	8.45	7.98	-10.2	2.8	-2.5	0	1095	482	Boiler shutdown 15/03 - 17/03
18-Mar-24	24-Mar-24	3-Apr-24	7.53	8.46	8.02	-10.7	2.4	-1.8	0	1030	289	Boiler shutdown 22/03 - 24/03
25-Mar-24	31-Mar-24	3-Apr-24	7.46	8.42	8.04	-11.1	0.9	-1.9	0	935	339	Boiler shutdown 29/03 - 02/04
1-Apr-24	7-Apr-24	17-Apr-24	6.65	8.44	7.93	-6.7	2.2	-1.9	0	861	271	Boiler shutdown 05/04 -05/04
8-Apr-24	14-Apr-24	17-Apr-24	7.42		8.04	-11.7	1.1	-2.9	0	1290	435	Boiler shutdown 12/04 -15/04

Sampling Point: **Monitoring Point 12 - Stormwater Discharge From Stockpile Catchment Basin**

Licencee 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		BOD_5 (mg/L)	Nitrogen (mg/L)	pH	Phosphorus (mg/L)	TSS (mg/L)	Notes
			90 Percentile Limit	30	10				
			Maximum Limit	55	20	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	
13-Nov-23	21-Nov-23	29-Nov-23		8.5	2.0	8.50	0.2	16.0	
04-Jan-24	16-Jan-24	24-Jan-24		12.3	2.1	6.78	0.7	28.0	
22-Jan-24	01-Feb-24	07-Feb-24		8.0	1.6	7.27	0.6	34.0	
22-Feb-24	29-Feb-24	06-Mar-24		5.5	1.3	7.32	0.3	16.0	
08-Apr-24	15-Apr-24	17-Apr-24		6.0	1.6	7.20	0.4	33.0	

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