



# Environmental Monitoring Report

## Broadwater Power Plant 117 Pacific Highway Broadwater NSW

Licencee Cape Byron Management Pty Ltd  
Address 117 Pacific Highway Broadwater NSW  
EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>

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

Sampling Point:

Licencee

Location

EPL No

Parameters Monitored

Frequency & Method

Limits

**Monitoring Point 1 - No 12 Boiler Stack Emissions**

Cape Byron Management Pty Ltd

Broadwater Cogeneration Power Plant

20425

<http://www.epa.nsw.gov.au/prpoeoapp/>

see individual parameters in table

Annually in accordance with EPA protocols

see individual parameters in table



**RESULTS TABLE**

Report Number	AE12084		AE 13192	
	20-Aug-19		16-Jul-20	
	13-Sep-19		25-Aug-20	
	23-Sep-19		27-Aug-20	

Measured Parameters dry @ STP and corrected to 7% O <sub>2</sub>	Units	Concentration Limit		
Average stack gas temperature	°C	Not Applicable	92.3	108.0
Average velocity at sampling plane	m/s	Not Applicable	9.8	8.1
Gas Volumetric Flowrate	m <sup>3</sup> /sec	Not Applicable	28.1	20.9
Dry Gas Density	kg/m <sup>3</sup>	Not Applicable	1.3	1.3
Molecular Weight of Stack Gases	g/g mole	Not Applicable	29.9	30.1
Moisture content	%	Not Applicable	21.8	26.7
Concentration of carbon dioxide	%	Not Applicable	9.5	10.6
Total Solid Particles	mg/m <sup>3</sup>	<b>100</b>	17.1	70.7
Sulphuric Acid Mist & Sulphur Trioxide as SO <sub>3</sub>	mg/m <sup>3</sup>	<b>12</b>	4.7	5.6
Nitrogen Oxides (NO <sub>x</sub> )	mg/m <sup>3</sup>	<b>500</b>	480.0	368.0

**Sampling Point:**

Licencee  
 Location  
 EPL No  
 Parameter/s Monitored  
 Frequency & Method  
 Limits

**Monitoring Point 2 - No 1 Cogeneration Boiler Stack Emissions**

Cape Byron Management Pty Ltd  
 Broadwater Cogeneration Power Plant  
 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 see individual parameters in table  
 Quarterly in accordance with EPA protocols  
 see individual parameters in table



			<b>RESULTS TABLE</b>			
Report Number			AE 12202	AE 12329	AE 13050	AE 13192
Sampling Date			31-Oct-19	21-Jan-20	21-Apr-20	16-Jul-20
Date Received			06-Nov-19	06-Feb-20	20-May-20	25-Aug-20
Date Published			28-Nov-19	06-Mar-20	29-May-20	27-Aug-20
<b>Measured Parameters dry @ STP and corrected to 7% O<sub>2</sub></b>	<b>Units</b>	<b>Concentration Limit</b>				
Average stack gas temperature	°C	Not Applicable	66.0	62.0	59.0	67.0
Average velocity at sampling plane	m/s	Not Applicable	14.9	13.7	11.1	14.8
Dry Gas Volumetric Flowrate	m <sup>3</sup> /sec	Not Applicable	58.8	64.6	50.1	58.1
Dry Gas Density	kg/m <sup>3</sup>	Not Applicable	1.3	1.3	1.3	1.3
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.1	30.0	30.0	30.1
Moisture content	%	Not Applicable	23.0	7.7	13.5	22.8
Concentration of carbon dioxide	%	Not Applicable	10.8	9.7	9.3	10.7
Total Solid Particles	mg/m <sup>3</sup>	100.0	20.7	50.2	11.9	15.6
Sulphuric Acid Mist & Sulphur Trioxide as SO <sub>3</sub>	mg/m <sup>3</sup>	12.0	9.3	0.8	2.4	7.0
Nitrogen Oxides (NO <sub>x</sub> )	mg/m <sup>3</sup>	500.0	303.0	170.0	159.0	325.0

**Sampling Point:** **Monitoring Point 3 - Ambient Air Monitoring**  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 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 <sup>2</sup> /month)	Notes
3-Jan-20	16-Jan-20	23-Jan-20	1.62	Fine org.matter
4-Feb-20	10-Feb-20	6-Mar-20	2.85	Fine organic matter observed
3-Mar-20	16-Mar-20	1-Apr-20	0.24	Fine organic matter present
3-Apr-20	9-Apr-20	30-Apr-20	0.37	
5-May-20	18-May-20	29-May-20	0.46	
3-Jun-20	5-Jun-20	29-Jun-20	0.51	
2-Jul-20	10-Jul-20	20-Jul-20	0.74	
4-Aug-20	13-Aug-20	27-Aug-20	0.82	

**Sampling Point:** **Monitoring Point 3 - Ambient Air Monitoring**  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored PM10  
 Monitoring Frequency Sampling for 24 hours every 6 Days when site is operating  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (ug/m <sup>3</sup> )	Notes
3-Jan-20	22-Jan-20	23-Jan-20	30.4	
9-Jan-20	12-Feb-20	6-Mar-20		Clock technical issue due to 2020 date roll over
14-Jan-20	12-Feb-20	6-Mar-20	13.2	Date changed by one day due to technical issue
20-Jan-20	12-Feb-20	6-Mar-20	19.1	
26-Jan-20	12-Feb-20	6-Mar-20	12.5	
1-Feb-20	12-Feb-20	6-Mar-20	15.6	
7-Feb-20	12-Mar-20	1-Apr-20	15.8	
13-Feb-20	12-Mar-20	1-Apr-20	24.9	
19-Feb-20	12-Mar-20	1-Apr-20	26.2	
25-Feb-20	12-Mar-20	1-Apr-20	14.9	
2-Mar-20	12-Mar-20	1-Apr-20	22.0	
8-Mar-20	20-Apr-20	30-Apr-20	16.3	
14-Mar-20	20-Apr-20	30-Apr-20	11.0	
20-Mar-20	20-Apr-20	30-Apr-20	12.5	
26-Mar-20	20-Apr-20	30-Apr-20	10.7	
1-Apr-20	20-Apr-20	30-Apr-20	15.4	
7-Apr-20	20-May-20	29-May-20	15.0	
13-Apr-20	20-May-20	29-May-20	20.8	
19-Apr-20	20-May-20	29-May-20	168.0	
25-Apr-20	20-May-20	29-May-20	15.4	
1-May-20	20-May-20	29-May-20	7.7	
7-May-20	20-May-20	29-May-20	16.8	
13-May-20	26-Jun-20	29-Jun-20	12.1	
19-May-20	26-Jun-20	29-Jun-20	5.4	
25-May-20	26-Jun-20	29-Jun-20	16.6	
31-May-20	26-Jun-20	29-Jun-20	3.7	
6-Jun-20	26-Jun-20	29-Jun-20	11.6	
12-Jun-20	26-Jun-20	29-Jun-20	5.7	
18-Jun-20	20-Jul-20	20-Jul-20	10.0	
24-Jun-20	20-Jul-20	20-Jul-20	9.4	
30-Jun-20	20-Jul-20	20-Jul-20	6.9	
6-Jul-20	20-Jul-20	27-Aug-20	6.9	
12-Jul-20	18-Aug-20	27-Aug-20	12.6	
18-Jul-20	18-Aug-20	27-Aug-20	8.4	
24-Jul-20	18-Aug-20	27-Aug-20	5.0	
30-Jul-20	18-Aug-20	27-Aug-20	10.8	

**Sampling Point: Monitoring Point 4 - Ambient Air Monitoring**

Licencee Cape Byron Management Pty Ltd  
Location Broadwater Cogeneration Power Plant  
EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
Parameter Particulates - Deposited Matter  
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 <sup>2</sup> /month)	Notes
3-Jan-20	16-Jan-20	23-Jan-20	1.59	Fine org.matter
4-Feb-20	10-Feb-20	6-Mar-20	2.90	Fine organic matter
3-Mar-20	16-Mar-20	1-Apr-20	0.24	Fine organic matter present
3-Apr-20	9-Apr-20	30-Apr-20	0.20	
5-May-20	18-May-20	29-May-20	0.65	
3-Jun-20	5-Jun-20	29-Jun-20	1.18	
2-Jul-20	10-Jul-20	20-Jul-20	1.00	
4-Aug-20	13-Aug-20	27-Aug-20	1.85	

**Sampling Point:** Monitoring Point 5 - Ambient Air Monitoring  
 Licence Cape Byron Management Pty Ltd  
 Location Broadwater Power Plant Fuel Stockpile  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 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 <sup>2</sup> /month)	Notes
3-Jan-20	16-Jan-20	23-Jan-20	4.41	Fine org.matter
4-Feb-20	10-Feb-20	6-Mar-20	1.00	Fine organic matter
3-Mar-20	16-Mar-20	1-Apr-20	0.19	Fine organic matter present
3-Apr-20	9-Apr-20	30-Apr-20	1.06	
5-May-20	18-May-20	29-May-20	1.96	
3-Jun-20	5-Jun-20	29-Jun-20	1.55	
2-Jul-20	10-Jul-20	20-Jul-20	1.03	
4-Aug-20	13-Aug-20	27-Aug-20	1.79	

**Sampling Point: Monitoring Point 6 - O<sub>2</sub> Monitoring No 1 Cogeneration Boiler**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Oxygen  
 Monitoring Frequency Continuous Online Sampling  
 Limit No Limits Prescribed



The results in the table provide a fortnightly summary of the minimum, maximum and mean daily values for the period indicated

Comments

MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Mean Value	Maximum Value	
30-Dec-19	12-Jan-20	23-Jan-20	3.40	12.77	21.30	
13-Jan-20	26-Jan-20	6-Mar-20	0.00	11.11	21.20	
27-Jan-20	9-Feb-20	6-Mar-20	0.00	9.77	21.40	
10-Feb-20	23-Feb-20	1-Apr-20	3.20	6.71	20.00	
24-Feb-20	8-Mar-20	1-Apr-20	0.00	6.74	21.20	
9-Mar-20	22-Mar-20	30-Apr-20	1.50	8.47	21.30	
23-Mar-20	5-Apr-20	30-Apr-20	2.20	8.47	21.30	
6-Apr-20	19-Apr-20	29-May-20	0.00	15.27	21.60	Boiler offline 6/04/20 to 9/04/20
20-Apr-20	3-May-20	29-May-20	4.20	11.70	21.40	
4-May-20	17-May-20	29-Jun-20	3.90	10.92	21.40	
18-May-20	31-May-20	29-Jun-20	2.20	6.41	11.60	
1-Jun-20	14-Jun-20	29-Jun-20	0.00	10.30	21.30	
15-Jun-20	28-Jun-20	20-Jul-20	0.00	5.74	12.70	
29-Jun-20	12-Jul-20	24-Jul-20	0.10	4.71	21.00	
13-Jul-20	26-Jul-20	30-Jul-20	0.00	5.09	21.30	
27-Jul-20	9-Aug-20	13-Aug-20	0.00	7.77	21.30	
10-Aug-20	23-Aug-20	27-Aug-20	0.00	4.93	21.20	Boiler offline 18/08/20 to 22/08/20
24-Aug-20	6-Sep-20	10-Sep-20	1.20	3.73	11.90	



**Sampling Point:** Monitoring Point 7 - O<sub>2</sub> Monitoring No 12 Boiler  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.environment.nsw.gov.au/>  
 Parameters Monitored Oxygen  
 Monitoring Frequency Continuous Online Sampling  
 Limit No Limits Prescribed



The results in the table provide a fortnightly summary of the minimum, maximum and mean daily values for the period indicated

Comments

MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Maximum Value	Mean Value	
30-Dec-19	12-Jan-20	23-Jan-20	No Data	No Data	No Data	Boiler Not Operating
13-Jan-20	26-Jan-20	6-Mar-20	No Data	No Data	No Data	Boiler Not Operating
27-Jan-20	9-Feb-20	6-Mar-20	No Data	No Data	No Data	Boiler Not Operating
10-Feb-20	23-Feb-20	1-Apr-20	No Data	No Data	No Data	Boiler Not Operating
24-Feb-20	8-Mar-20	1-Apr-20	No Data	No Data	No Data	Boiler Not Operating
9-Mar-20	22-Mar-20	30-Apr-20	No Data	No Data	No Data	Boiler Not Operating
23-Mar-20	5-Apr-20	30-Apr-20	No Data	No Data	No Data	Boiler Not Operating
6-Apr-20	19-Apr-20	29-May-20	No Data	No Data	No Data	Boiler Not Operating
20-Apr-20	3-May-20	29-May-20	No Data	No Data	No Data	Boiler Not Operating
4-May-20	17-May-20	29-Jun-20	No Data	No Data	No Data	Boiler Not Operating
18-May-20	31-May-20	29-Jun-20	No Data	No Data	No Data	Boiler Not Operating
1-Jun-20	14-Jun-20	29-Jun-20	No Data	No Data	No Data	Boiler Not Operating
15-Jun-20	28-Jun-20	20-Jul-20	0.02	21.00	19.78	Boiler Operational 23/06/20 to 29/06/20 only
29-Jun-20	12-Jul-20	20-Jul-20	2.61	21.00	15.16	Boiler Operational 30/06/20 to 2/07/20 only
13-Jul-20	26-Jul-20	30-Jul-20	3.31	21.00	10.45	Boiler Operational 14/07/2020
27-Jul-20	9-Aug-20	13-Aug-20	0.00	21.00	10.39	Boiler Not Operational 28/07/20 to 30/07/20
10-Aug-20	23-Aug-20	27-Aug-20	0.00	21.00	11.40	Boiler offline 18/08/20 to 22/08/20
24-Aug-20	6-Sep-20	10-Sep-20	1.45	21.00	10.21	

**Sampling Point:** Monitoring Point 8 - Cogeneration Cooling Water Discharge  
**Licencee:** Cape Byron Management Pty Ltd  
**Location:** Broadwater Cogeneration Power Plant  
**EPL No:** 20425 <http://www.epa.nsw.gov.au/prpocoeapp/>  
**Parameters Monitored:** Temperature & Volume  
**Monitoring Frequency:** Continous online  
**Limits:** Seet Table  
**Comments:** No result may exceed the maximum limit.



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
			Limit/s	Maximum	41	Limit/s	Maximum	155520	
Date Start	Date Finish	Date Published	Min Temp	Mean Temp	Max Temp	Minimum Daily Discharge	Mean Daily Discharge	Maximum Daily Discharge	
30-Dec-19	12-Jan-20	23-Jan-20	26	34	40	68592	115932	137184	
13-Jan-20	26-Jan-20	6-Mar-20	25	35	41	71164	127983	137184	
27-Jan-20	9-Feb-20	6-Mar-20	23	37	41	68640	128427	137184	41.1°C recorded 03/02/20 for 15 mnutest
10-Feb-20	23-Feb-20	1-Apr-20	23	36	40	131420	136517	137184	
24-Feb-20	8-Mar-20	1-Apr-20	23	37	39	125371	136200	137184	
9-Mar-20	22-Mar-20	30-Apr-20	23	33	37	136470	137124	137184	
23-Mar-20	5-Apr-20	30-Apr-20	17	34	38	137184	137184	137184	
6-Apr-20	19-Apr-20	29-May-20	16	26	35	40250	92893	137184	
20-Apr-20	3-May-20	29-May-20	17	34	38	137184	137184	137184	
4-May-20	17-May-20	29-Jun-20	18	26	32	56160	120937	137184	
18-May-20	31-May-20	29-Jun-20	23	29	36	132849	136799	137184	
1-Jun-20	14-Jun-20	29-Jun-20	9	24	30	68592	121691	137184	
15-Jun-20	28-Jun-20	20-Jul-20	17	24	32	133850	136847	137184	
29-Jun-20	12-Jul-20	24-Jul-20	15	21	30	131230	136287	137184	
13-Jul-20	26-Jul-20	30-Jul-20	15	24	31	134326	136894	137184	
27-Jul-20	9-Aug-20	13-Aug-20	14	23	38	68592	123660	137184	
10-Aug-20	23-Aug-20	27-Aug-20	15	25	36	36678	118889	137184	
24-Aug-20	6-Sep-20	10-Sep-20	21	25	31	135231	136835	137184	

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

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Temperature  
 Monitoring Frequency Continuous online (by calculation)  
 Limits Not Applicable - background data only



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
Date Start	Date Finish	Date Published	Minimum Background Temperature	Mean Background Temperature	Maximum Background Temperature	Minimum Daily Intake	Mean Daily Intake	Maximum Daily Intake	
30-Dec-19	12-Jan-20	23-Jan-20	27.0	28.5	29.9	68592	115932	137184	
13-Jan-20	26-Jan-20	6-Mar-20	25.7	27.8	34.3	71164	127983	137184	
27-Jan-20	9-Feb-20	6-Mar-20	24.3	28.7	31.4	68640	128427	137184	
10-Feb-20	23-Feb-20	1-Apr-20	23.8	26.3	28.9	131420	136517	137184	
24-Feb-20	8-Mar-20	1-Apr-20	22.7	27.0	28.1	125371	136200	137184	
9-Mar-20	22-Mar-20	30-Apr-20	23.2	24.7	26.7	136470	137124	137184	
23-Mar-20	5-Apr-20	30-Apr-20	18.9	25.0	26.2	137184	137184	137184	
6-Apr-20	19-Apr-20	29-May-20	12.1	22.4	37.3	40250	92893	137184	
20-Apr-20	3-May-20	29-May-20	18.9	25.0	26.2	137184	137184	137184	
4-May-20	17-May-20	29-Jun-20	14.9	20.2	34.5	56160	120937	137184	
18-May-20	31-May-20	29-Jun-20	17.6	19.1	20.6	132849	136799	137184	
1-Jun-20	14-Jun-20	29-Jun-20	16.8	18.1	20.3	68592	121691	137184	
15-Jun-20	28-Jun-20	20-Jul-20	16.3	17.9	19.5	133850	136847	137184	
29-Jun-20	12-Jul-20	24-Jul-20	16.1	16.9	18.3	131230	136287	137184	
13-Jul-20	26-Jul-20	30-Jul-20	15.9	17.0	18.1	134326	136894	137184	
27-Jul-20	9-Aug-20	13-Aug-20	15.3	16.6	18.6	68592	123660	137184	
10-Aug-20	23-Aug-20	27-Aug-20	9.8	18.0	29.3	36678	118889	137184	
24-Aug-20	6-Sep-20	10-Sep-20	15.9	18.6	21.5	135231	136835	137184	

**Sampling Point:** Monitoring Point 10 - Stockpile Sediment Pond West  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Power Plant Fuel Stockpile  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameter/s Monitored See Table  
 Frequency & Method Monthly Grab Sample  
 Limit/s None Prescribed



PARAMETERS MEASURED								Notes
Date Sampled	Date Received	Date Published	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Nitrogen (mg/L)	Phosphorus (mg/L)	
30-Jan-20	11-Feb-20	6-Mar-20	5.1	26.0	6.5	1.5	1.0	
18-Feb-20	25-Feb-20	6-Mar-20	41.0	73.0	5.5	1.4	2.2	
17-Mar-20	24-Mar-20	1-Apr-20	3.4	14.0	6.7	1.0	2.0	
3-Apr-20	9-Apr-20	30-Apr-20	5.4	29.0	6.3	1.3	1.8	
18-May-20	26-May-20	29-May-20	10.3	160.0	6.5	1.3	1.6	
17-Jun-20	26-Jun-20	29-Jun-20	6.4	65.0	6.3	1.1	1.0	
21-Jul-20	31-Jul-20	13-Aug-20	19.6	42.0	6.2	0.9	0.7	
11-Aug-20	17-Aug-20	27-Aug-20	15.9	70.0	6.3	1.6	1.0	

**Sampling Point:** Monitoring Point 11 - Stockpile Sediment Pond East  
 Licence: Cape Byron Management Pty Ltd  
 Location: Broadwater Power Plant Fuel Stockpile  
 EPL No: 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameter/s Monitored: See Table  
 Frequency & Method: Monthly Grab Sample  
 Limit/s: None Prescribed



PARAMETERS MEASURED								
Date Sampled	Date Received	Date Published	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Nitrogen (mg/L)	Phosphorus (mg/L)	Notes
30-Jan-20	11-Feb-20	6-Mar-20	15.3	35.0	7.0	3.3	1.1	
18-Feb-20	25-Feb-20	6-Mar-20	12.0	24.0	6.6	1.0	2.0	
17-Mar-20	24-Mar-20	1-Apr-20	3.5	6.0	7.4	2.9	1.2	
3-Apr-20	9-Apr-20	30-Apr-20	16.0	8.0	6.8	2.6	1.3	
18-May-20	26-May-20	29-May-20	4.4	21.0	7.2	1.6	0.9	
17-Jun-20	26-Jun-20	29-Jun-20	6.9	15.0	6.9	1.5	0.9	
21-Jul-20	31-Jul-20	13-Aug-20	6.4	3.0	7.0	1.4	0.8	
11-Aug-20	17-Aug-20	27-Aug-20	22.0	110.0	6.8	2.1	0.8	

**Sampling Point:** Monitoring Point 12 - Reverse Osmosis Sidestream  
**Licencee:** Cape Byron Management Pty Ltd  
**Location:** Broadwater Cogeneration Power Plant  
**EPL No:** 20425 <http://www.epa.nsw.gov.au/brpoeoapp/>  
**Parameters Measured:** See Table  
**Frequency & Method:** Biannual Grab Sample  
**Licence Limits:** Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Aluminium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	1.636	
		19-Jun-19	28-Jun-19	23-Jul-19	0.456	
		05-Dec-19	18-Dec-19	23-Jan-20	2.060	
		03-Apr-20	16-Apr-20	30-Apr-20	0.672	
Ammonia	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.055	
		19-Jun-19	28-Jun-19	23-Jul-19	1.487	
		05-Dec-19	18-Dec-19	23-Jan-20	0.058	
		03-Apr-20	16-Apr-20	30-Apr-20	0.791	
Arsenic	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.010	
		19-Jun-19	28-Jun-19	23-Jul-19	0.002	
		05-Dec-19	18-Dec-19	23-Jan-20	0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	0.003	
Barium	mg/l	22-Mar-19	04-Apr-19	23-Jul-19	0.095	
		19-Jun-19	28-Jun-19	23-Jul-19	0.132	
		05-Dec-19	18-Dec-19	23-Jan-20	0.024	
		03-Apr-20	16-Apr-20	30-Apr-20	0.085	
Bicarbonate	CaCO <sub>3</sub> /kg	22-Mar-19	04-Apr-19	30-Apr-19	42.000	
		19-Jun-19	28-Jun-19	23-Jul-19	0.132	
		05-Dec-19	18-Dec-19	23-Jan-20	25.000	
		03-Apr-20	16-Apr-20	30-Apr-20	24.000	
Cadmium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.001	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.001	
Calcium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	4.970	
		19-Jun-19	28-Jun-19	23-Jul-19	23.212	
		05-Dec-19	18-Dec-19	23-Jan-20	5.400	
		03-Apr-20	16-Apr-20	30-Apr-20	20.000	
Chloride	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	13.800	
		19-Jun-19	28-Jun-19	23-Jul-19	168.578	
		05-Dec-19	18-Dec-19	23-Jan-20	2.600	
		03-Apr-20	16-Apr-20	30-Apr-20	190.000	
Chromium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.002	
		19-Jun-19	28-Jun-19	23-Jul-19	0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	0.001	
Conductivity	dS/m	22-Mar-19	04-Apr-19	30-Apr-19	0.142	
		19-Jun-19	28-Jun-19	23-Jul-19	0.963	
		05-Dec-19	18-Dec-19	23-Jan-20	0.259	
		03-Apr-20	16-Apr-20	30-Apr-20	0.876	
Copper	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.001	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.001	
Hardness (as calcium)	CaCO <sub>3</sub> /kg	22-Mar-19	04-Apr-19	30-Apr-19	29.541	
		19-Jun-19	28-Jun-19	23-Jul-19	142.399	
		05-Dec-19	18-Dec-19	23-Jan-20	30.000	
		03-Apr-20	16-Apr-20	30-Apr-20	113.000	
Iron	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	39.674	
		19-Jun-19	28-Jun-19	23-Jul-19	9.331	
		05-Dec-19	18-Dec-19	23-Jan-20	3.160	
		03-Apr-20	16-Apr-20	30-Apr-20	7.530	
Lead	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.001	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.001	
Magnesium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	4.160	
		19-Jun-19	28-Jun-19	23-Jul-19	20.505	
		05-Dec-19	18-Dec-19	23-Jan-20	4.100	
		03-Apr-20	16-Apr-20	30-Apr-20	15.000	
Manganese	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.085	
		19-Jun-19	28-Jun-19	23-Jul-19	0.106	
		05-Dec-19	18-Dec-19	23-Jan-20	0.032	
		03-Apr-20	16-Apr-20	30-Apr-20	0.118	

**Sampling Point:** Monitoring Point 12 - Reverse Osmosis Sidestream  
**Licencee:** Cape Byron Management Pty Ltd  
**Location:** Broadwater Cogeneration Power Plant  
**EPL No:** 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
**Parameters Measured:** See Table  
**Frequency & Method:** Biannual Grab Sample  
**Licence Limits:** Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Mercury	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.0005	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.0005	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.0005	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.0005	
Nickel	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.001	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	0.001	
Nitrate	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.479	
		19-Jun-19	28-Jun-19	23-Jul-19	0.033	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.005	
		03-Apr-20	16-Apr-20	30-Apr-20	0.014	
Nitrite	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.009	
		19-Jun-19	28-Jun-19	23-Jul-19	0.048	
		05-Dec-19	18-Dec-19	23-Jan-20	0.313	
		03-Apr-20	16-Apr-20	30-Apr-20	0.016	
Orthophosphate	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.015	
		19-Jun-19	28-Jun-19	23-Jul-19	0.015	
		05-Dec-19	18-Dec-19	23-Jan-20	0.014	
		03-Apr-20	16-Apr-20	30-Apr-20	0.010	
Potassium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	3.650	
		19-Jun-19	28-Jun-19	23-Jul-19	14.392	
		05-Dec-19	18-Dec-19	23-Jan-20	1.900	
		03-Apr-20	16-Apr-20	30-Apr-20	6.100	
Selenium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.002	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.002	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.002	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.002	
Silica (total)	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	7.009	
		19-Jun-19	28-Jun-19	23-Jul-19	26.875	
		05-Dec-19	18-Dec-19	23-Jan-20	6.140	
		03-Apr-20	16-Apr-20	30-Apr-20	22.900	
Silver	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<0.001	
		19-Jun-19	28-Jun-19	23-Jul-19	<0.001	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	<0.001	
Sodium	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	17.900	
		19-Jun-19	28-Jun-19	23-Jul-19	122.132	
		05-Dec-19	18-Dec-19	23-Jan-20	21.000	
		03-Apr-20	16-Apr-20	30-Apr-20	128.000	
Sodium Adsorption Ratio	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	1.432	
		19-Jun-19	28-Jun-19	23-Jul-19	4.450	
		05-Dec-19	18-Dec-19	23-Jan-20	1.600	
		03-Apr-20	16-Apr-20	30-Apr-20	5.300	
Sulfate	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	6.870	
		19-Jun-19	28-Jun-19	23-Jul-19	57.568	
		05-Dec-19	18-Dec-19	23-Jan-20	11.600	
		03-Apr-20	16-Apr-20	30-Apr-20	102.000	
Total Dissolved Salts	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	96.560	
		19-Jun-19	28-Jun-19	23-Jul-19	655.000	
		05-Dec-19	18-Dec-19	23-Jan-20	176.000	
		03-Apr-20	16-Apr-20	30-Apr-20	596.000	
Total Organic Carbon	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	24.142	
		19-Jun-19	28-Jun-19	23-Jul-19	26.300	
		05-Dec-19	18-Dec-19	23-Jan-20	15.800	
		03-Apr-20	16-Apr-20	30-Apr-20	21.000	
Total Suspended Solids	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	<1	
		19-Jun-19	28-Jun-19	23-Jul-19	<1	
		05-Dec-19	18-Dec-19	23-Jan-20	2.000	
		03-Apr-20	16-Apr-20	30-Apr-20	5.000	
Zinc	mg/l	22-Mar-19	04-Apr-19	30-Apr-19	0.023	
		19-Jun-19	28-Jun-19	23-Jul-19	0.009	
		05-Dec-19	18-Dec-19	23-Jan-20	<0.001	
		03-Apr-20	16-Apr-20	30-Apr-20	0.012	
pH		22-Mar-19	04-Apr-19	30-Apr-19	7.250	
		19-Jun-19	28-Jun-19	23-Jul-19	7.570	
		05-Dec-19	18-Dec-19	23-Jan-20	7.350	
		03-Apr-20	16-Apr-20	30-Apr-20	6.840	





**Sampling Point:** Rain gauge  
 Licence Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425  
 Parameter/s Monitored Rainfall  
 Frequency & Method Continuous Auto Sampler



TIPPING GAUGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Monday, 30 December 2019	9:01am	Tuesday, 31 December 2019	9:00am	0	0
Tuesday, 31 December 2019	9:01am	Wednesday, 1 January 2020	9:00am	0	0
Wednesday, 1 January 2020	9:01am	Thursday, 2 January 2020	9:00am	0	0
Thursday, 2 January 2020	9:01am	Friday, 3 January 2020	9:00am	0	0
Friday, 3 January 2020	9:01am	Saturday, 4 January 2020	9:00am	0	0
Saturday, 4 January 2020	9:01am	Sunday, 5 January 2020	9:00am	0	0
Sunday, 5 January 2020	9:01am	Monday, 6 January 2020	9:00am	0	0
Monday, 6 January 2020	9:01am	Tuesday, 7 January 2020	9:00am	0	0
Tuesday, 7 January 2020	9:01am	Wednesday, 8 January 2020	9:00am	0	0
Wednesday, 8 January 2020	9:01am	Thursday, 9 January 2020	9:00am	0	0
Thursday, 9 January 2020	9:01am	Friday, 10 January 2020	9:00am	0.6	0.2
Friday, 10 January 2020	9:01am	Saturday, 11 January 2020	9:00am	0	0
Saturday, 11 January 2020	9:01am	Sunday, 12 January 2020	9:00am	12	0.6
Sunday, 12 January 2020	9:01am	Monday, 13 January 2020	9:00am	0	0
Monday, 13 January 2020	9:01am	Tuesday, 14 January 2020	9:00am	0.2	0.2
Tuesday, 14 January 2020	9:01am	Wednesday, 15 January 2020	9:00am	8.2	1.2
Wednesday, 15 January 2020	9:01am	Thursday, 16 January 2020	9:00am	0	0
Thursday, 16 January 2020	9:01am	Friday, 17 January 2020	9:00am	7.8	1
Friday, 17 January 2020	9:01am	Saturday, 18 January 2020	9:00am	62.8	2
Saturday, 18 January 2020	9:01am	Sunday, 19 January 2020	9:00am	40.2	0.8
Sunday, 19 January 2020	9:01am	Monday, 20 January 2020	9:00am	1.4	0.2
Monday, 20 January 2020	9:01am	Tuesday, 21 January 2020	9:00am	0.4	0.2
Tuesday, 21 January 2020	9:01am	Wednesday, 22 January 2020	9:00am	0.2	0.2
Wednesday, 22 January 2020	9:01am	Thursday, 23 January 2020	9:00am	0	0
Thursday, 23 January 2020	9:01am	Friday, 24 January 2020	9:00am	0	0
Friday, 24 January 2020	9:01am	Saturday, 25 January 2020	9:00am	0	0
Saturday, 25 January 2020	9:01am	Sunday, 26 January 2020	9:00am	9.8	0.8
Sunday, 26 January 2020	9:01am	Monday, 27 January 2020	9:00am	0.2	0.2
Monday, 27 January 2020	9:01am	Tuesday, 28 January 2020	9:00am	0	0
Tuesday, 28 January 2020	9:01am	Wednesday, 29 January 2020	9:00am	0	0
Wednesday, 29 January 2020	9:01am	Thursday, 30 January 2020	9:00am	0	0
Thursday, 30 January 2020	9:01am	Friday, 31 January 2020	9:00am	2.2	1.8
Friday, 31 January 2020	9:01am	Saturday, 1 February 2020	9:00am	0	0
Saturday, 1 February 2020	9:01am	Sunday, 2 February 2020	9:00am	0	0
Sunday, 2 February 2020	9:01am	Monday, 3 February 2020	9:00am	0	0
Monday, 3 February 2020	9:01am	Tuesday, 4 February 2020	9:00am	24.8	1.6
Tuesday, 4 February 2020	9:01am	Wednesday, 5 February 2020	9:00am	3.4	0.4
Wednesday, 5 February 2020	9:01am	Thursday, 6 February 2020	9:00am	8.6	0.4
Thursday, 6 February 2020	9:01am	Friday, 7 February 2020	9:00am	174.4	2.4
Friday, 7 February 2020	9:01am	Saturday, 8 February 2020	9:00am	4.2	0.2
Saturday, 8 February 2020	9:01am	Sunday, 9 February 2020	9:00am	85.4	1.6
Sunday, 9 February 2020	9:01am	Monday, 10 February 2020	9:00am	27.8	1.4
Monday, 10 February 2020	9:01am	Tuesday, 11 February 2020	9:00am	0.6	0.2
Tuesday, 11 February 2020	9:01am	Wednesday, 12 February 2020	9:00am	0.2	0.2
Wednesday, 12 February 2020	9:01am	Thursday, 13 February 2020	9:00am	7.4	1
Thursday, 13 February 2020	9:01am	Friday, 14 February 2020	9:00am	2	0.8
Friday, 14 February 2020	9:01am	Saturday, 15 February 2020	9:00am	1.4	0.4
Saturday, 15 February 2020	9:01am	Sunday, 16 February 2020	9:00am	0.2	0.2
Sunday, 16 February 2020	9:01am	Monday, 17 February 2020	9:00am	0	0
Monday, 17 February 2020	9:01am	Tuesday, 18 February 2020	9:00am	14	0.6
Tuesday, 18 February 2020	9:01am	Wednesday, 19 February 2020	9:00am	0	0
Wednesday, 19 February 2020	9:01am	Thursday, 20 February 2020	9:00am	0	0
Thursday, 20 February 2020	9:01am	Friday, 21 February 2020	9:00am	0	0
Friday, 21 February 2020	9:01am	Saturday, 22 February 2020	9:00am	3	0.4
Saturday, 22 February 2020	9:01am	Sunday, 23 February 2020	9:00am	0.6	0.2
Sunday, 23 February 2020	9:01am	Monday, 24 February 2020	9:00am	9.2	0.4
Monday, 24 February 2020	9:01am	Tuesday, 25 February 2020	9:00am	27.4	0.6
Tuesday, 25 February 2020	9:01am	Wednesday, 26 February 2020	9:00am	1	0.2
Wednesday, 26 February 2020	9:01am	Thursday, 27 February 2020	9:00am	14.6	0.8
Thursday, 27 February 2020	9:01am	Friday, 28 February 2020	9:00am	0.2	0.2
Friday, 28 February 2020	9:01am	Saturday, 29 February 2020	9:00am	4.4	0.6
Saturday, 29 February 2020	9:01am	Sunday, 1 March 2020	9:00am	0.2	0.2
Sunday, 1 March 2020	9:01am	Monday, 2 March 2020	9:00am	0	0
Monday, 2 March 2020	9:01am	Tuesday, 3 March 2020	9:00am	0	0
Tuesday, 3 March 2020	9:01am	Wednesday, 4 March 2020	9:00am	0.2	0.2
Wednesday, 4 March 2020	9:01am	Thursday, 5 March 2020	9:00am	0	0
Thursday, 5 March 2020	9:01am	Friday, 6 March 2020	9:00am	0	0
Friday, 6 March 2020	9:01am	Saturday, 7 March 2020	9:00am	16.4	1.4
Saturday, 7 March 2020	9:01am	Sunday, 8 March 2020	9:00am	10.8	0.4
Sunday, 8 March 2020	9:01am	Monday, 9 March 2020	9:00am	1.4	0.2
Monday, 9 March 2020	9:01am	Tuesday, 10 March 2020	9:00am	35.2	1.2
Tuesday, 10 March 2020	9:01am	Wednesday, 11 March 2020	9:00am	2	0.2
Wednesday, 11 March 2020	9:01am	Thursday, 12 March 2020	9:00am	3.4	1
Thursday, 12 March 2020	9:01am	Friday, 13 March 2020	9:00am	2.6	0.2
Friday, 13 March 2020	9:01am	Saturday, 14 March 2020	9:00am	0	0
Saturday, 14 March 2020	9:01am	Sunday, 15 March 2020	9:00am	3.6	0.2
Sunday, 15 March 2020	9:01am	Monday, 16 March 2020	9:00am	5	0.4
Monday, 16 March 2020	9:01am	Tuesday, 17 March 2020	9:00am	1.6	0.2
Tuesday, 17 March 2020	9:01am	Wednesday, 18 March 2020	9:00am	0	0
Wednesday, 18 March 2020	9:01am	Thursday, 19 March 2020	9:00am	0.2	0.2
Thursday, 19 March 2020	9:01am	Friday, 20 March 2020	9:00am	0	0
Friday, 20 March 2020	9:01am	Saturday, 21 March 2020	9:00am	0	0
Saturday, 21 March 2020	9:01am	Sunday, 22 March 2020	9:00am	0	0

**Sampling Point:** Rain gauge  
 Licence Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425  
 Parameter/s Monitored Rainfall  
 Frequency & Method Continuous Auto Sampler



TIPPING GAUGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Sunday, 22 March 2020	9:01am	Monday, 23 March 2020	9:00am	0.2	0.2
Monday, 23 March 2020	9:01am	Tuesday, 24 March 2020	9:00am	2.6	0.2
Tuesday, 24 March 2020	9:01am	Wednesday, 25 March 2020	9:00am	3.4	0.2
Wednesday, 25 March 2020	9:01am	Thursday, 26 March 2020	9:00am	0	0
Thursday, 26 March 2020	9:01am	Friday, 27 March 2020	9:00am	5.8	0.2
Friday, 27 March 2020	9:01am	Saturday, 28 March 2020	9:00am	5.8	0.4
Saturday, 28 March 2020	9:01am	Sunday, 29 March 2020	9:00am	1.4	0.2
Sunday, 29 March 2020	9:01am	Monday, 30 March 2020	9:00am	2.8	0.4
Monday, 30 March 2020	9:01am	Tuesday, 31 March 2020	9:00am	2.4	0.2
Tuesday, 31 March 2020	9:01am	Wednesday, 1 April 2020	9:00am	0	0
Wednesday, 1 April 2020	9:01am	Thursday, 2 April 2020	9:00am	0	0
Thursday, 2 April 2020	9:01am	Friday, 3 April 2020	9:00am	0.8	0.2
Friday, 3 April 2020	9:01am	Saturday, 4 April 2020	9:00am	0	0
Saturday, 4 April 2020	9:01am	Sunday, 5 April 2020	9:00am	1.6	0.2
Sunday, 5 April 2020	9:01am	Monday, 6 April 2020	9:00am	0.2	0.2
Monday, 6 April 2020	9:01am	Tuesday, 7 April 2020	9:00am	0	0
Tuesday, 7 April 2020	9:01am	Wednesday, 8 April 2020	9:00am	18	2
Wednesday, 8 April 2020	9:01am	Thursday, 9 April 2020	9:00am	0	0
Thursday, 9 April 2020	9:01am	Friday, 10 April 2020	9:00am	34	1.2
Friday, 10 April 2020	9:01am	Saturday, 11 April 2020	9:00am	2	0.2
Saturday, 11 April 2020	9:01am	Sunday, 12 April 2020	9:00am	0	0
Sunday, 12 April 2020	9:01am	Monday, 13 April 2020	9:00am	0	0
Monday, 13 April 2020	9:01am	Tuesday, 14 April 2020	9:00am	0	0
Tuesday, 14 April 2020	9:01am	Wednesday, 15 April 2020	9:00am	0	0
Wednesday, 15 April 2020	9:01am	Thursday, 16 April 2020	9:00am	0	0
Thursday, 16 April 2020	9:01am	Friday, 17 April 2020	9:00am	0	0
Friday, 17 April 2020	9:01am	Saturday, 18 April 2020	9:00am	0	0
Saturday, 18 April 2020	9:01am	Sunday, 19 April 2020	9:00am	0	0
Sunday, 19 April 2020	9:01am	Monday, 20 April 2020	9:00am	0	0
Monday, 20 April 2020	9:01am	Tuesday, 21 April 2020	9:00am	0	0
Tuesday, 21 April 2020	9:01am	Wednesday, 22 April 2020	9:00am	0	0
Wednesday, 22 April 2020	9:01am	Thursday, 23 April 2020	9:00am	0	0
Thursday, 23 April 2020	9:01am	Friday, 24 April 2020	9:00am	0	0
Friday, 24 April 2020	9:01am	Saturday, 25 April 2020	9:00am	0	0
Saturday, 25 April 2020	9:01am	Sunday, 26 April 2020	9:00am	0	0
Sunday, 26 April 2020	9:01am	Monday, 27 April 2020	9:00am	0	0
Monday, 27 April 2020	9:01am	Tuesday, 28 April 2020	9:00am	5.6	0.8
Tuesday, 28 April 2020	9:01am	Wednesday, 29 April 2020	9:00am	14.8	1.8
Wednesday, 29 April 2020	9:01am	Thursday, 30 April 2020	9:00am	0	0
Thursday, 30 April 2020	9:01am	Friday, 1 May 2020	9:00am	0	0
Friday, 1 May 2020	9:01am	Saturday, 2 May 2020	9:00am	0	0
Saturday, 2 May 2020	9:01am	Sunday, 3 May 2020	9:00am	0	0
Sunday, 3 May 2020	9:01am	Monday, 4 May 2020	9:00am	0	0
Monday, 4 May 2020	9:01am	Tuesday, 5 May 2020	9:00am	0	0
Tuesday, 5 May 2020	9:01am	Wednesday, 6 May 2020	9:00am	10.6	0.6
Wednesday, 6 May 2020	9:01am	Thursday, 7 May 2020	9:00am	0.4	0.2
Thursday, 7 May 2020	9:01am	Friday, 8 May 2020	9:00am	0	0
Friday, 8 May 2020	9:01am	Saturday, 9 May 2020	9:00am	0	0
Saturday, 9 May 2020	9:01am	Sunday, 10 May 2020	9:00am	5.6	0.4
Sunday, 10 May 2020	9:01am	Monday, 11 May 2020	9:00am	0	0
Monday, 11 May 2020	9:01am	Tuesday, 12 May 2020	9:00am	0	0
Tuesday, 12 May 2020	9:01am	Wednesday, 13 May 2020	9:00am	0	0
Wednesday, 13 May 2020	9:01am	Thursday, 14 May 2020	9:00am	0	0
Thursday, 14 May 2020	9:01am	Friday, 15 May 2020	9:00am	1.8	0.2
Friday, 15 May 2020	9:01am	Saturday, 16 May 2020	9:00am	10.4	0.6
Saturday, 16 May 2020	9:01am	Sunday, 17 May 2020	9:00am	14.6	1
Sunday, 17 May 2020	9:01am	Monday, 18 May 2020	9:00am	34	1.4
Monday, 18 May 2020	9:01am	Tuesday, 19 May 2020	9:00am	0.2	0.2
Tuesday, 19 May 2020	9:01am	Wednesday, 20 May 2020	9:00am	4.6	0.6
Wednesday, 20 May 2020	9:01am	Thursday, 21 May 2020	9:00am	0	0
Thursday, 21 May 2020	9:01am	Friday, 22 May 2020	9:00am	2.8	0.2
Friday, 22 May 2020	9:01am	Saturday, 23 May 2020	9:00am	0	0
Saturday, 23 May 2020	9:01am	Sunday, 24 May 2020	9:00am	0	0
Sunday, 24 May 2020	9:01am	Monday, 25 May 2020	9:00am	0	0
Monday, 25 May 2020	9:01am	Tuesday, 26 May 2020	9:00am	0	0
Tuesday, 26 May 2020	9:01am	Wednesday, 27 May 2020	9:00am	0	0
Wednesday, 27 May 2020	9:01am	Thursday, 28 May 2020	9:00am	0	0
Thursday, 28 May 2020	9:01am	Friday, 29 May 2020	9:00am	0	0
Friday, 29 May 2020	9:01am	Saturday, 30 May 2020	9:00am	10.8	0.8
Saturday, 30 May 2020	9:01am	Sunday, 31 May 2020	9:00am	4.8	0.8
Sunday, 31 May 2020	9:01am	Monday, 1 June 2020	9:00am	0.2	0.2
Monday, 1 June 2020	9:01am	Tuesday, 2 June 2020	9:00am	0.6	0.2
Tuesday, 2 June 2020	9:01am	Wednesday, 3 June 2020	9:00am	0	0
Wednesday, 3 June 2020	9:01am	Thursday, 4 June 2020	9:00am	0	0
Thursday, 4 June 2020	9:01am	Friday, 5 June 2020	9:00am	0	0
Friday, 5 June 2020	9:01am	Saturday, 6 June 2020	9:00am	0	0
Saturday, 6 June 2020	9:01am	Sunday, 7 June 2020	9:00am	0	0
Sunday, 7 June 2020	9:01am	Monday, 8 June 2020	9:00am	6.4	1.2
Monday, 8 June 2020	9:01am	Tuesday, 9 June 2020	9:00am	1.2	0.4
Tuesday, 9 June 2020	9:01am	Wednesday, 10 June 2020	9:00am	24.2	2.2
Wednesday, 10 June 2020	9:01am	Thursday, 11 June 2020	9:00am	31.4	1.4
Thursday, 11 June 2020	9:01am	Friday, 12 June 2020	9:00am	0.2	0.2
Friday, 12 June 2020	9:01am	Saturday, 13 June 2020	9:00am	0	0
Saturday, 13 June 2020	9:01am	Sunday, 14 June 2020	9:00am	0.2	0.2
Sunday, 14 June 2020	9:01am	Monday, 15 June 2020	9:00am	14	0.8
Monday, 15 June 2020	9:01am	Tuesday, 16 June 2020	9:00am	0.4	0.2
Tuesday, 16 June 2020	9:01am	Wednesday, 17 June 2020	9:00am	0.2	0.2
Wednesday, 17 June 2020	9:01am	Thursday, 18 June 2020	9:00am	3.6	0.6
Thursday, 18 June 2020	9:01am	Friday, 19 June 2020	9:00am	15.8	0.8
Friday, 19 June 2020	9:01am	Saturday, 20 June 2020	9:00am	2.8	0.4
Saturday, 20 June 2020	9:01am	Sunday, 21 June 2020	9:00am	0.2	0.2
Sunday, 21 June 2020	9:01am	Monday, 22 June 2020	9:00am	1.4	0.2
Monday, 22 June 2020	9:01am	Tuesday, 23 June 2020	9:00am	0	0
Tuesday, 23 June 2020	9:01am	Wednesday, 24 June 2020	9:00am	0	0
Wednesday, 24 June 2020	9:01am	Thursday, 25 June 2020	9:00am	0	0
Thursday, 25 June 2020	9:01am	Friday, 26 June 2020	9:00am	0	0
Friday, 26 June 2020	9:01am	Saturday, 27 June 2020	9:00am	0.2	0.2
Saturday, 27 June 2020	9:01am	Sunday, 28 June 2020	9:00am	21	1.6
Sunday, 28 June 2020	9:01am	Monday, 29 June 2020	9:00am	0.4	0.2
Monday, 29 June 2020	9:01am	Tuesday, 30 June 2020	9:00am	8.4	0.4
Tuesday, 30 June 2020	9:01am	Wednesday, 1 July 2020	9:00am	0.2	0.2

**Sampling Point:**  
 Licence  
 Location  
 EPL No  
 Parameter/s Monitored  
 Frequency & Method

**Rain gauge**  
 Cape Byron Management Pty Ltd  
 Broadwater Cogeneration Power Plant  
 20425  
 Rainfall  
 Continuous Auto Sampler



TIPPING GAUGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Wednesday, 1 July 2020	9:01am	Thursday, 2 July 2020	9:00am	0.2	0.2
Thursday, 2 July 2020	9:01am	Friday, 3 July 2020	9:00am	0	0
Friday, 3 July 2020	9:01am	Saturday, 4 July 2020	9:00am	0.2	0.2
Saturday, 4 July 2020	9:01am	Sunday, 5 July 2020	9:00am	0.2	0.2
Sunday, 5 July 2020	9:01am	Monday, 6 July 2020	9:00am	0	0
Monday, 6 July 2020	9:01am	Tuesday, 7 July 2020	9:00am	0	0
Tuesday, 7 July 2020	9:01am	Wednesday, 8 July 2020	9:00am	0	0
Wednesday, 8 July 2020	9:01am	Thursday, 9 July 2020	9:00am	14.6	0.2
Thursday, 9 July 2020	9:01am	Friday, 10 July 2020	9:00am	0.2	0.2
Friday, 10 July 2020	9:01am	Saturday, 11 July 2020	9:00am	0	0
Saturday, 11 July 2020	9:01am	Sunday, 12 July 2020	9:00am	0	0
Sunday, 12 July 2020	9:01am	Monday, 13 July 2020	9:00am	1.6	0.2
Monday, 13 July 2020	9:01am	Tuesday, 14 July 2020	9:00am	0	0
Tuesday, 14 July 2020	9:01am	Wednesday, 15 July 2020	9:00am	0.2	0.2
Wednesday, 15 July 2020	9:01am	Thursday, 16 July 2020	9:00am	0	0
Thursday, 16 July 2020	9:01am	Friday, 17 July 2020	9:00am	0	0
Friday, 17 July 2020	9:01am	Saturday, 18 July 2020	9:00am	0	0
Saturday, 18 July 2020	9:01am	Sunday, 19 July 2020	9:00am	0	0
Sunday, 19 July 2020	9:01am	Monday, 20 July 2020	9:00am	0.2	0.2
Monday, 20 July 2020	9:01am	Tuesday, 21 July 2020	9:00am	0	0
Tuesday, 21 July 2020	9:01am	Wednesday, 22 July 2020	9:00am	0	0
Wednesday, 22 July 2020	9:01am	Thursday, 23 July 2020	9:00am	0.2	0.2
Thursday, 23 July 2020	9:01am	Friday, 24 July 2020	9:00am	30	1
Friday, 24 July 2020	9:01am	Saturday, 25 July 2020	9:00am	47.2	1.2
Saturday, 25 July 2020	9:01am	Sunday, 26 July 2020	9:00am	41.8	0.8
Sunday, 26 July 2020	9:01am	Monday, 27 July 2020	9:00am	22.2	0.4
Monday, 27 July 2020	9:01am	Tuesday, 28 July 2020	9:00am	0	0
Tuesday, 28 July 2020	9:01am	Wednesday, 29 July 2020	9:00am	0	0
Wednesday, 29 July 2020	9:01am	Thursday, 30 July 2020	9:00am	0	0
Thursday, 30 July 2020	9:01am	Friday, 31 July 2020	9:00am	0	0
Friday, 31 July 2020	9:01am	Saturday, 1 August 2020	9:00am	3	0.2
Saturday, 1 August 2020	9:01am	Sunday, 2 August 2020	9:00am	0.4	0.2
Sunday, 2 August 2020	9:01am	Monday, 3 August 2020	9:00am	0.2	0.2
Monday, 3 August 2020	9:01am	Tuesday, 4 August 2020	9:00am	0	0
Tuesday, 4 August 2020	9:01am	Wednesday, 5 August 2020	9:00am	0	0
Wednesday, 5 August 2020	9:01am	Thursday, 6 August 2020	9:00am	0	0
Thursday, 6 August 2020	9:01am	Friday, 7 August 2020	9:00am	0	0
Friday, 7 August 2020	9:01am	Saturday, 8 August 2020	9:00am	17.4	0.4
Saturday, 8 August 2020	9:01am	Sunday, 9 August 2020	9:00am	0	0
Sunday, 9 August 2020	9:01am	Monday, 10 August 2020	9:00am	0	0
Monday, 10 August 2020	9:01am	Tuesday, 11 August 2020	9:00am	0	0
Tuesday, 11 August 2020	9:01am	Wednesday, 12 August 2020	9:00am	0	0
Wednesday, 12 August 2020	9:01am	Thursday, 13 August 2020	9:00am	0	0
Thursday, 13 August 2020	9:01am	Friday, 14 August 2020	9:00am	0	0
Friday, 14 August 2020	9:01am	Saturday, 15 August 2020	9:00am	14.4	1
Saturday, 15 August 2020	9:01am	Sunday, 16 August 2020	9:00am	0.4	0.2
Sunday, 16 August 2020	9:01am	Monday, 17 August 2020	9:00am	0	0
Monday, 17 August 2020	9:01am	Tuesday, 18 August 2020	9:00am	0	0
Tuesday, 18 August 2020	9:01am	Wednesday, 19 August 2020	9:00am	0	0
Wednesday, 19 August 2020	9:01am	Thursday, 20 August 2020	9:00am	0	0
Thursday, 20 August 2020	9:01am	Friday, 21 August 2020	9:00am	0	0
Friday, 21 August 2020	9:01am	Saturday, 22 August 2020	9:00am	0	0
Saturday, 22 August 2020	9:01am	Sunday, 23 August 2020	9:00am	0	0
Sunday, 23 August 2020	9:01am	Monday, 24 August 2020	9:00am	0	0
Monday, 24 August 2020	9:01am	Tuesday, 25 August 2020	9:00am	0	0
Tuesday, 25 August 2020	9:01am	Wednesday, 26 August 2020	9:00am	0.4	0.2
Wednesday, 26 August 2020	9:01am	Thursday, 27 August 2020	9:00am	0	0
Thursday, 27 August 2020	9:01am	Friday, 28 August 2020	9:00am	0	0
Friday, 28 August 2020	9:01am	Saturday, 29 August 2020	9:00am	0	0
Saturday, 29 August 2020	9:01am	Sunday, 30 August 2020	9:00am	0	0
Sunday, 30 August 2020	9:01am	Monday, 31 August 2020	9:00am	0	0
Monday, 31 August 2020	9:01am	Tuesday, 1 September 2020	9:00am	9.8	1.2
Tuesday, 1 September 2020	9:01am	Wednesday, 2 September 2020	9:00am	3.8	0.8
Wednesday, 2 September 2020	9:01am	Thursday, 3 September 2020	9:00am	0.2	0.2
Thursday, 3 September 2020	9:01am	Friday, 4 September 2020	9:00am	0	0
Friday, 4 September 2020	9:01am	Saturday, 5 September 2020	9:00am	0	0
Saturday, 5 September 2020	9:01am	Sunday, 6 September 2020	9:00am	0	0
Sunday, 6 September 2020	9:01am	Monday, 7 September 2020	9:00am	0.4	0.2
Monday, 7 September 2020	9:01am	Tuesday, 8 September 2020	9:00am	0	0
Tuesday, 8 September 2020	9:01am	Wednesday, 9 September 2020	9:00am	0	0