



B Monitoring and Complaints Summary

B1 Number of Pollution Complaints

Pollution Category	Number of Complaints
Air	0
Water	0
Noise	0
Waste	0
Other	0

B2 Concentration Monitoring Summary

Monitoring Point 2: Effluent quality monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Biochemical oxygen demand	milligrams per litre	4	1	15/08/2012	NA	<2	NA	20
Total suspended solids	milligrams per litre	4	1	15/08/2012	NA	<5	NA	30

Comments: No spray irrigation occurred during the month of August 2012 therefore the number of required samples were not collected.

Monitoring Point 4: Ambient water monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Temperature	Degrees Celsius	Continuous	Continuous	NA	10.6	13.1	35.5	NA*



Comments: * Tallawarra does not have water quality licence limits for ambient water quality monitoring in its EPL. ANZECC Guidelines apply to receiving waters.

High temperatures in the inlet waters are a result from the station's thermoshock process and in no way impact the receiving waters of Lake Illawarra.

Discharge and Monitoring Point 5: Discharge water quality monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Temperature	Degrees Celsius	Continuous	Continuous	NA	14.5	16.7	23.2	35

Comments: NA

Monitoring Point 6: Ambient water monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Temperature	Degrees Celsius	Continuous	Continuous	NA	9.9	13.4	17.4	NA*

Comments: NA

Monitoring Point 7: Ambient water monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Temperature	Degrees Celsius	Continuous	Continuous	NA	10.5	13.0	15.5	NA*



Comments: NA

Monitoring Point 8: Discharge water monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Copper	micrograms per litre	Monthly during discharge	1	15/08/2012	NA	<0.001	NA	NA*
Nitrogen (total)	milligrams per litre	Monthly during discharge	1	15/08/2012	NA	1.1	NA	NA*
pH	pH	Monthly during discharge	1	15/08/2012	NA	7.6	NA	NA*
Total Phosporous - filtered sample	milligrams per litre	Monthly during discharge	1	15/08/2012	NA	0.05	NA	NA*
Total suspended solids	milligrams per litre	Monthly during discharge	1	15/08/2012	NA	6	NA	NA*
Zinc	micrograms per litre	Monthly during discharge	1	15/08/2012	NA	<0.005	NA	NA*

Comments: * Tallawarra does not have water quality licence limits for discharge water quality monitoring in its EPL. ANZECC Guidelines apply to receiving waters.



Discharge and Monitoring Point 9: Air emissions monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Carbon dioxide	Percent	Continuous	**	NA	0.8	3.9	4.6	NA
Moisture content	Percent	Continuous	**	NA	8.6	9.7	11.3	NA
Nitric oxide	parts per million	Continuous	**	NA	0.1	5	25.4	NA
Nitrogen dioxide	parts per million	Continuous	**	NA	0	2.2	16.4	NA
Nitrogen oxides	parts per million	Continuous	**	NA	0	4.8	22.4	25
Oxygen (O2)	Percent	Continuous	**	NA	12.1	13.7	14.8	NA
Solid particles	milligrams per cubic metre	Yearly	1	2/02/2012	NA	0.38	NA	10
Sulphur dioxide	parts per million	Yearly	1	2/02/2012	<1.8*	<1.8*	<1.8	3
Temperature	Degrees Celsius	Continuous	**	NA	67.8	77.1	90.2	NA
Volatile organic compounds	parts per million	Yearly	1	2/02/2012	NA	<1.6*	NA	NA
Volumetric flow rate	cubic metres per second	Continuous	**	NA	221.5	302.2	432.6	NA

Notes: * equipment detection limit
 ** Continuous data reported based on hourly average CEMS data

Comments: Plant offline from 03/08/2012 to 17/08/2012. Air Emissions Monitoring data calculated excluding period when plant offline. The Volumetric flow rate previously reported has not been corrected for density, and previous reports will subsequently be updated with adjusted values.

Monitoring Point 10: Ambient air monitoring

Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date samples collected	Lowest sample value	Mean of sample	Highest sample value	Licence Limit
Nitric oxide	parts per hundred million	Continuous	735	NA	-0.4	0.1	9.5	NA
Nitrogen dioxide	parts per hundred million	Continuous	735	NA	0	0.3	2.6	NA
Nitrogen oxides	parts per hundred million	Continuous	735	NA	-0.4	0.4	11.2	NA
Ozone	parts per hundred million	Continuous	735	NA	-0.9	2.1	4.8	NA



Comments: Six monthly maintenance was performed on the NO/NO₂/NO_x and O₃ analysers 22/08/2012 12:20 to 20:05. A brief power failure occurred 23/08/2012 02:40 to 03:45, and the NO/NO₂/NO_x and O₃ analysers took 30 minutes to stabilise after power was restored. A span check was performed on the NO/NO₂/NO_x and O₃ analysers 27/08/2012 09:55 to 11:20.

B3 Volume or Mass Monitoring Summary

Monitoring Point 3: Sewage volume monitoring



Pollutant	Unit of Measure	No. of Samples required	No. of samples collected	Date Samples collected	Lowest result	Mean result	Highest result	Licence Limit
Sewage	Kilolitres per day	Continuous	31	NA	NA	0	NA	100

Comments: No spray irrigation occurred during the month of August 2012 therefore no effluent quality monitoring was conducted.