

## Environmental Monitoring

The Effluent Quality Characteristics that the new treatment facilities are required to meet were agreed with the relevant state and federal authorities and are aimed at minimising Council's environmental impact particularly on the Great Barrier Reef Marine Park.

The Effluent Licence Limits are as shown in the tables below.

### Release Quality Characteristic Limits

Quality Characteristic		Min	Long Term 50 <sup>th</sup> %ile	Long Term 80 <sup>th</sup> %ile	Short Term 80 <sup>th</sup> %ile	Max	Monitor Frequency
BOD	(mg/L)		5	7.5	10	20	Fortnight
COD	(mg/L)						Fortnight
TSS	(mg/L)			15	23	30	Fortnight
TN	(mg/L)		5			15	Fortnight
NH3	(mg/L)		1			2	Fortnight
TP	(mg/L)		1			3	Fortnight
pH	units	6.5				8.5	Fortnight
DO	(mg/L)	3.0				0.2	Fortnight
Total Chlorine	(mg/L)					0.2	Fortnight
Enterococci Organisms	(cfu/100 mL)		40			200	Fortnight

### Volume of contaminants

	Dry Weather Day	Wet Weather Day
Maximum Discharge	6.25 ML	31.25 ML

### Release Mass Loads

Contaminant	Limit Type	Release Limit until Dec 2020	Release Limit from Jan 2021
Total Nitrogen as N (TN)	Annual Load	10520 (kg)	14610 (kg)
	Monthly Load	3650 (kg)	5100 (kg)
Total Phosphorus as P (TP)	Annual Load	2100 (kg)	2900 (kg)
	Monthly Load	560 (kg)	780 (kg)

### Definitions

BOD	- 5 day Biochemical Oxygen Demand
COD	- Chemical Oxygen Demand
TSS	- Total Suspended Solids
TN	- Total Nitrogen
TP	- Total Phosphorus
DO	- Dissolved Oxygen