

Results of EPA samples collected at beaches near the Black Rock outfall on 30 June 2006

Parameter	Black Rock Beach (adjacent to treatment plant)	13th Beach (approx 3km east)	Barwon River estuary (approx 7km east)	Point Lonsdale LSC (approx 17km east)	ANZECC* guidelines	
					Recreation al waters	Ecosystem protection Open coast
Enterococci (orgs/100mL)	<10	<10	<10	<10	35**	Not applicable
<i>E.coli</i> (orgs/100mL)	<10	<10	<10	<10	150**	Not applicable
Ammonia (mg/L)	<0.1	<0.1	0.1	<0.1	0.01 ^A	0.5
Phenol (mg/L)	<0.001	<0.001	<0.001	<0.001	0.002	0.27
Cadmium (mg/L)	<0.001	<0.001	<0.001	<0.001	0.005	0.0007
Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	0.0077 ^B
Copper (mg/L)	<0.01	<0.01	<0.01	<0.01	1	0.0003
Mercury (mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.0001
Nickel (mg/L)	<0.01	<0.01	<0.01	<0.01	0.1	0.007
Lead (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	0.0022
Zinc (mg/L)	<0.01	<0.01	<0.01	<0.01	5	0.007

*ANZECC water quality guidelines for fresh and marine waters.

**State Environment Protection Policy (Waters of Victoria) 2003 median water quality objective for primary contact recreation.

^A Guideline for Ammonia is an aesthetic consideration, related to taste in drinking water.

^B Limit for Chromium is CrIII as reducing environment of treatment plant ensures chromium in CrIII form.