

Water Impact Screening (Predicted Environmental Concentration) - Fresh Water Releases

Apply Tests 3 and 4 and identify which releases may need more Detailed Modelling of Emissions/Discharges to Water

This page applies Tests 3, 4a and 4b and displays the Predicted Environmental Concentrations in relation to the background pollutant levels and the AA or MAC EQS. Any substances that pass all 3 of these tests can be screened out. Substances failing any of the tests must be modelled. Note that releases that have passed Tests 1 and 2 are insignificant and are not shown as they are already screened out.

Number	Substance	Bkgrnd Conc. µg/l	Annual Avg EQS				MAC* EQS					
			PC µg/l	PEC µg/l	(PEC - BC)/ EQS	PEC -BC >10% AA EQS	% PEC of EQS %	PEC >100% AA EQS	PC µg/l	PEC µg/l	% PEC of MAC %	PEC >100% MAC
						Test 3		Test 4a				Test 4b
3	Cadmium and its compounds (≥ 200 mg/l CaCO3) (Tottle Brook at Harrimans Lane)	0.025	0.0884	0.114	35.3%	Fail	45.4	Pass	2.77	2.79	186	Fail
5	Copper (Tottle Brook at Harrimans Lane)	0.0001	0.0980	0.0981	9.8%	Pass	9.81	Pass	3.47	0	-	Pass
7	Lead and its compounds (Tottle Brook at Harrimans Lane)	0.012	0.0258	0.0378	2.1%	Pass	3.15	Pass	0.742	0.751	5.37	Pass
9	Mercury and its compounds (Tottle Brook at Harrimans Lane)	0.00001	0.00461	0		Pass	-	Pass	0.181	0.181	258	Fail
8	Nickel and its compounds (Tottle Brook at Harrimans Lane)	0.4	0.0763	0.477	1.9%	Pass	12.0	Pass	4.45	4.76	14.0	Pass
11	Zinc (Tottle Brook at Harrimans Lane)	1.09	2.19	3.28	20.0%	Fail	30.0	Pass	57.9	0	-	Pass

* MAC = Maximum Allowable Concentration

Describe source of background information or reference to relevant documentation here:

Background Concentration set at 10% of EQS (on basis of WFD status of River Trent)



