Water Impacts - Fresh Water Releases

Apply Test 1 (See Guidance) and Calculate Process Contributions of Emissions to Water

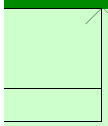
This table applies Test 1 and also estimates the Process Contribution for Freshwater releases, this is calculated after dilution into the relevant s type for each emission to water listed in the inventory, according to the release point parameters input earlier. If you have more accurate data ob through dilution modelling, this may be entered as indicated and will be used instead of the estimated PC. Any releases which 'Pass' Test 1 are out at this point.

Substance	Release µg/l	Annual Avg EQS EQS µg/l	Release conc < 10% EQS Test 1
[S1] Ammonia (un-ionised) (River Trent at Stoke Bardolph)	163.0000		N/A
[S1] Arsenic (River Trent at Stoke Bardolph)	3.6600	50.0000	Pass
[S1] Cadmium and its compounds (≥ 200 mg/l CaCO3) (River Trent at Stoke Bardolph)	21.9000	0.2500	Fail
[S1] Chromium III (95%ile) (dissolved) (River Trent at Stoke Bardolph)	29.7000	4.7000	Fail
[S1] Copper (River Trent at Stoke Bardolph)	50.0000	1.0000	Fail
[S1] Iron (dissolved) (River Trent at Stoke Bardolph)	3402.0000	1000.0000	Fail
[S1] Lead and it's compounds (River Trent at Stoke Bardolph)	150.0000	1.2000	Fail
[S1] Mercury and its compounds (River Trent at Stoke Bardolph)	0.2400		N/A
[S1] Nickel and its compounds (River Trent at Stoke Bardolph)	9.8600	4.0000	Fail
[S1] Tin (inorganic) (River Trent at Stoke Bardolph)	30.4000	25.0000	Fail
[S1] Un-ionised ammonia as nitrogen (River Trent at Stoke Bardolph)	163.0000		N/A
[S1] Zinc (River Trent at Stoke Bardolph)	459.0000	10.9000	Fail
[W1] Ammonia (un-ionised) (Tottle Brook at Harrimans Lane)	67.0000		N/A
[W1] Arsenic (Tottle Brook at Harrimans Lane)	1.0300	50.0000	Pass
[W1] Cadmium and its compounds (≥ 200 mg/l CaCO3) (Tottle Brook at Harrimans Lane)	2.7800	0.2500	Fail
[W1] Chromium III (95%ile) (dissolved) (Tottle Brook at Harrimans Lane)	0.7000	4.7000	Fail
[W1] Copper (Tottle Brook at Harrimans Lane)	3.0800	1.0000	Fail
[W1] Iron (dissolved) (Tottle Brook at Harrimans Lane)	73.9000	1000.0000	Pass
[W1] Lead and it's compounds (Tottle Brook at Harrimans Lane)	0.8100	1.2000	Fail
[W1] Mercury and its compounds (Tottle Brook at Harrimans Lane)	0.1450		N/A
[W1] Nickel and its compounds (Tottle Brook at Harrimans Lane)	2.4000	4.0000	Fail
[W1] Tin (inorganic) (Tottle Brook at Harrimans Lane)	18.3000	25.0000	Fail
[W1] Un-ionised ammonia as nitrogen (Tottle Brook at Harrimans Lane)	67.0000		N/A
[W1] Zinc (Tottle Brook at Harrimans Lane)	68.7000	10.9000	Fail

Note that the Process Contribution shown for each substance is the sum of the individual process contributions of each point from which the su Process Contributions obtained from modelling data should incorporate all relevant release points and flow conditions.

* If you have valid dispersion modelling data available - please enter it here

Comments:



urface water
btained
screened

MAC EQS

Release µg/l	MAC µg/l	Release conc < 10% EQS Test 1
665.0000		N/A
3.6600		N/A
63.6000	1.5	Fail
70.1000	32	Fail
131.0000		N/A
6600.0000		N/A
359.0000	14	Fail
0.2400	0.07	Fail
25.3000	34	Fail
101.0000		N/A
665.0000		N/A
1250.0000		N/A
393.0000		N/A
1.0300		N/A
11.2000	1.5	Fail
1.4000	32	Pass
14.0000		N/A
115.0000		N/A
3.0000	14	Fail
0.7300	0.07	Fail
18.0000	34	Fail
18.3000		N/A
393.0000		N/A
234.0000		N/A

ubstance is emitted.

Water Impacts Test 1 - Freshwater Base Option