

Cilgerran WwTW

discharge
 river
 pollutant

mean upstream river flow
 the 95-percentile low flow
 mean discharge flow
 standard deviation
 mean u/s river quality (241 - 759)
 standard deviation (319 - 669)
 number of samples

mean discharge quality (637 - 1363)
 standard deviation (455 - 945)
 number of samples
 the 95-percentile (1602 - 4609)
 the 99-percentile (2273 - 8724)
 the 99.5-percentile (2575 - 11055)

correlation: river and discharge flow

downstream target
 mean

calculate required discharge quality
 calculate impact of input discharge quality

mean d/s river quality	<input type="text" value="1000"/>	(543 - 1457)
standard deviation	<input type="text" value="882"/>	(572 - 1191)
number of samples	<input type="text" value="12"/>	

required discharge mean	<input type="text" value="4775"/>	(3060 - 6490)
standard deviation	<input type="text" value="3308"/>	(2148 - 4468)
number of samples	<input type="text" value="12"/>	
the 95-percentile	<input type="text" value="11074"/>	(7715 - 21840)
the 99-percentile	<input type="text" value="17180"/>	(11132 - 41300)
the 99.5-percentile	<input type="text" value="19599"/>	(12126 - 51706)

correlation: river flow and quality
 correlation: discharge flow and quality

MASS BALANCE: Monte Carlo
 Calculations: 19 June 2025 at 04:14