

Llanfair Kilgeddin

discharge

Llanfair Wastewater Treatment Works

river

pollutant

Fe

mean upstream river flow

26710

the 95-percentile low flow

3827

mean discharge flow

0.64

standard deviation

0.21

mean u/s river quality

500

(241 - 759)

standard deviation

500

(319 - 669)

number of samples

12

mean discharge quality

1000

(637 - 1363)

standard deviation

700

(455 - 945)

number of samples

12

the 95-percentile

2315

(1602 - 4609)

the 99-percentile

3560

(2273 - 8724)

the 99.5-percentile

4167

(2575 - 11055)

INT

NPD

correlation: river and discharge flow

0.6000

downstream target

1000

mean

M

☒ calculate required discharge quality

☐ calculate impact of input discharge quality

mean d/s river quality

1000

(581 - 1419)

standard deviation

809

(525 - 1092)

number of samples

12

required discharge mean

10400860

(6665590 - 141361)

standard deviation

7204997

(4678326 - 973166)

number of samples

12

the 95-percentile

24121070

(16804490 - 47570)

the 99-percentile

37421490

(24247960 - 89957)

the 99.5-percentile

12690570

(26411340 - 11262)

correlation: river flow and quality

0

correlation: discharge flow and quality

0

MASS BALANCE: Monte Carlo

Calculations: 24 February 2025 at 10:31

old data - WORD

old data - EXCEL

old data - NOTE

new discharge

calculate

sensitivity

Excel

Word

Note

menu

quit

OUT