

### Response to reviewer 3

The technical note from Lloyd et al. ("Testing an improved index for analysing storm nutrient hysteresis") compares methods for calculating a hysteresis index for concentration - discharge relationships during storm events. The note is appropriate for HESS and will be of interest to researchers seeking metrics to interpret C-Q relationships. My only major recommendation is that the authors remove "nutrient" from the title since the paper does not discuss nutrient data (but rather turbidity - discharge relationships).

Thank you for your comment. We agree with your recommendation; we therefore propose to amend the title to "Technical Note: Testing an improved index for analysing storm hysteresis dynamics". We use turbidity as an example in the technical note, as hysteresis in turbidity is prevalent in the literature and we had a large number of storms displaying a wide range of hysteretic behaviours for which we could test our methodology (explained P7879 ln3-6), however the technique is more widely applicable to any quantifiable water quality parameter. We would like therefore to represent this in a broader title.