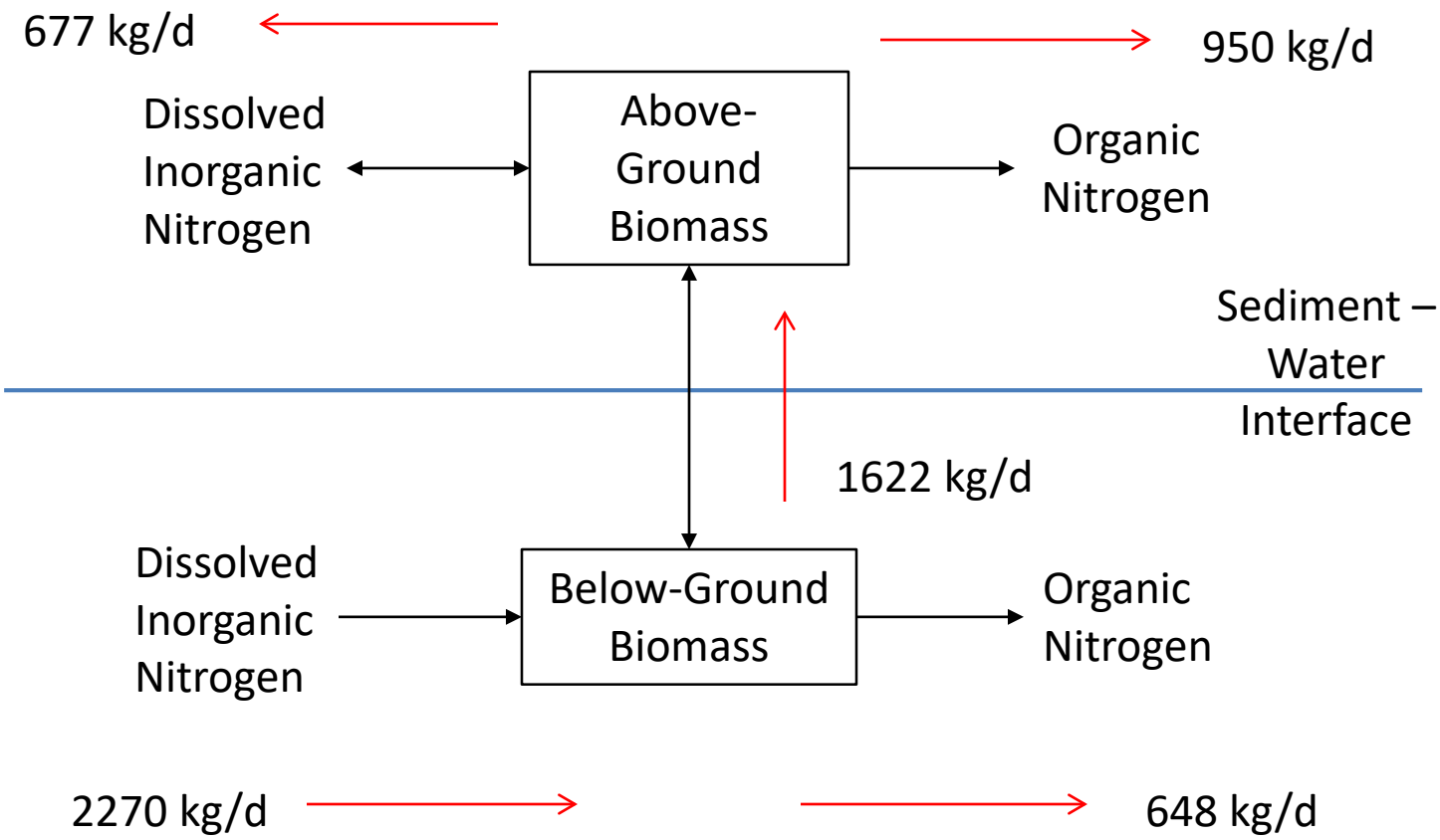
The Question

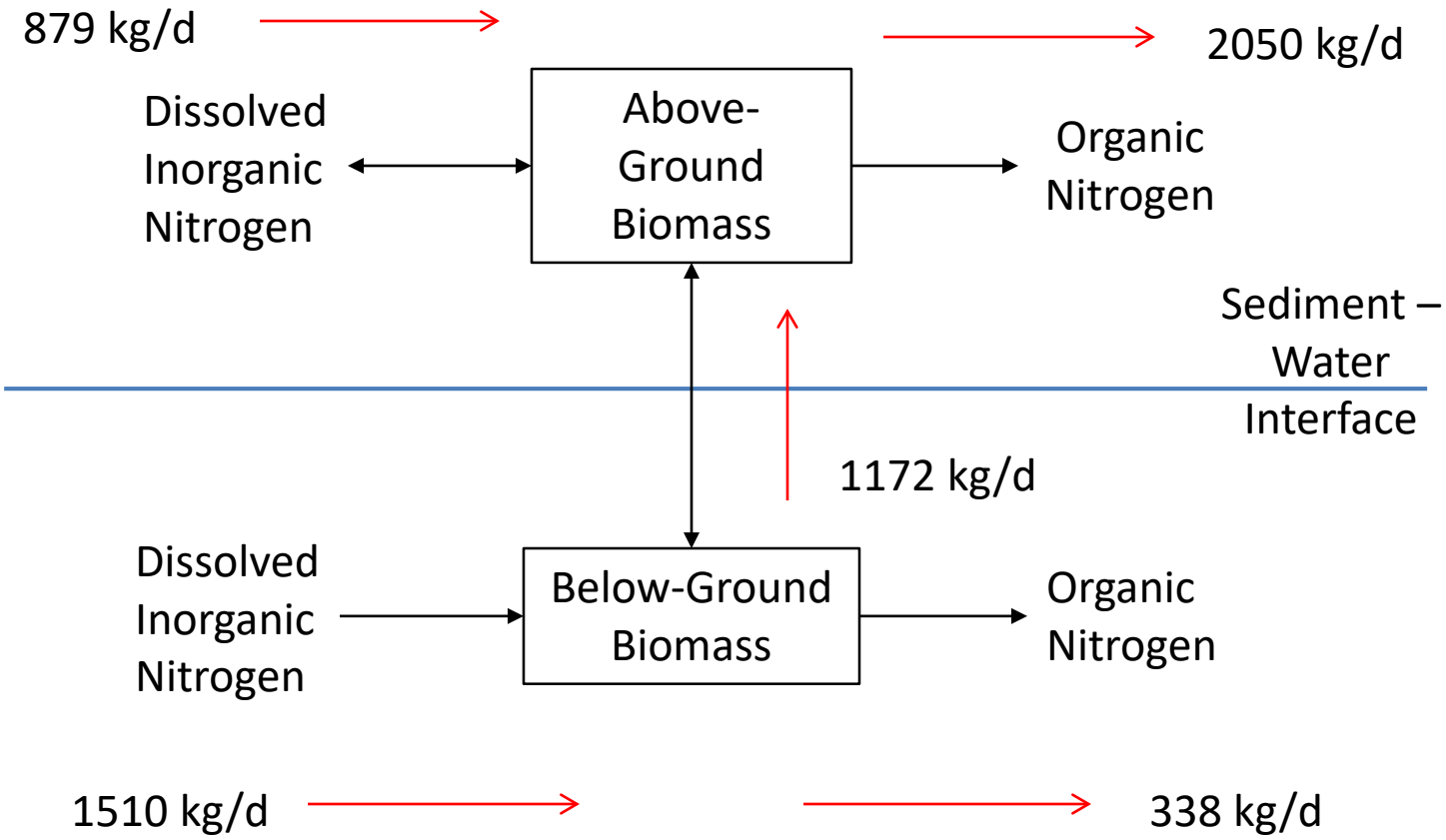
- We want to know how SAV influences nutrient cycling. How much nutrient is removed from water column by SAV?
- We quantify these fluxes within the model code.
- We need to export the desired information from the code and put it into useful form.

The Nitrogen Cycle



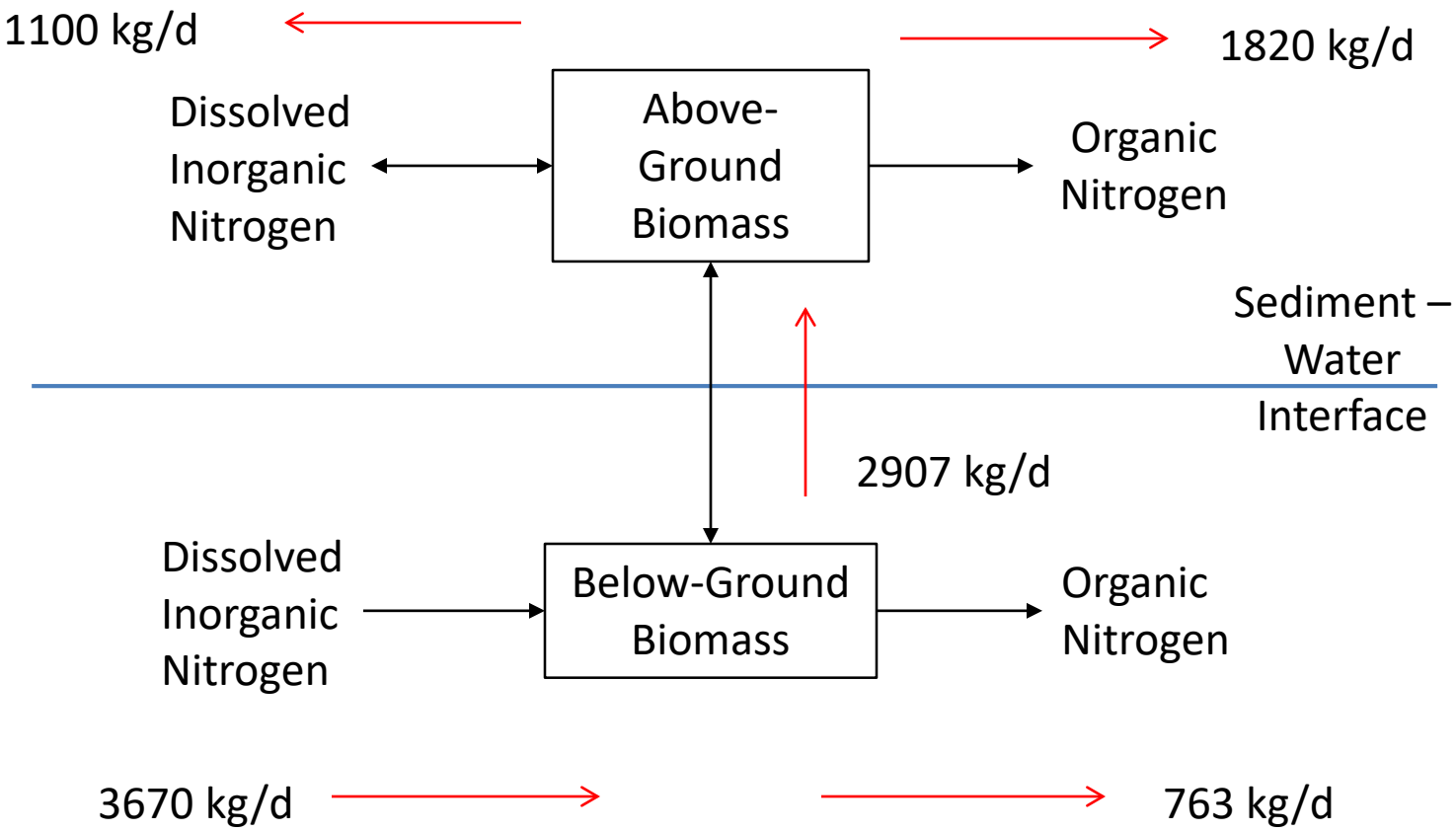
We quantify and can report out the indicated fluxes (CB7PH, zostera).

The Nitrogen Cycle



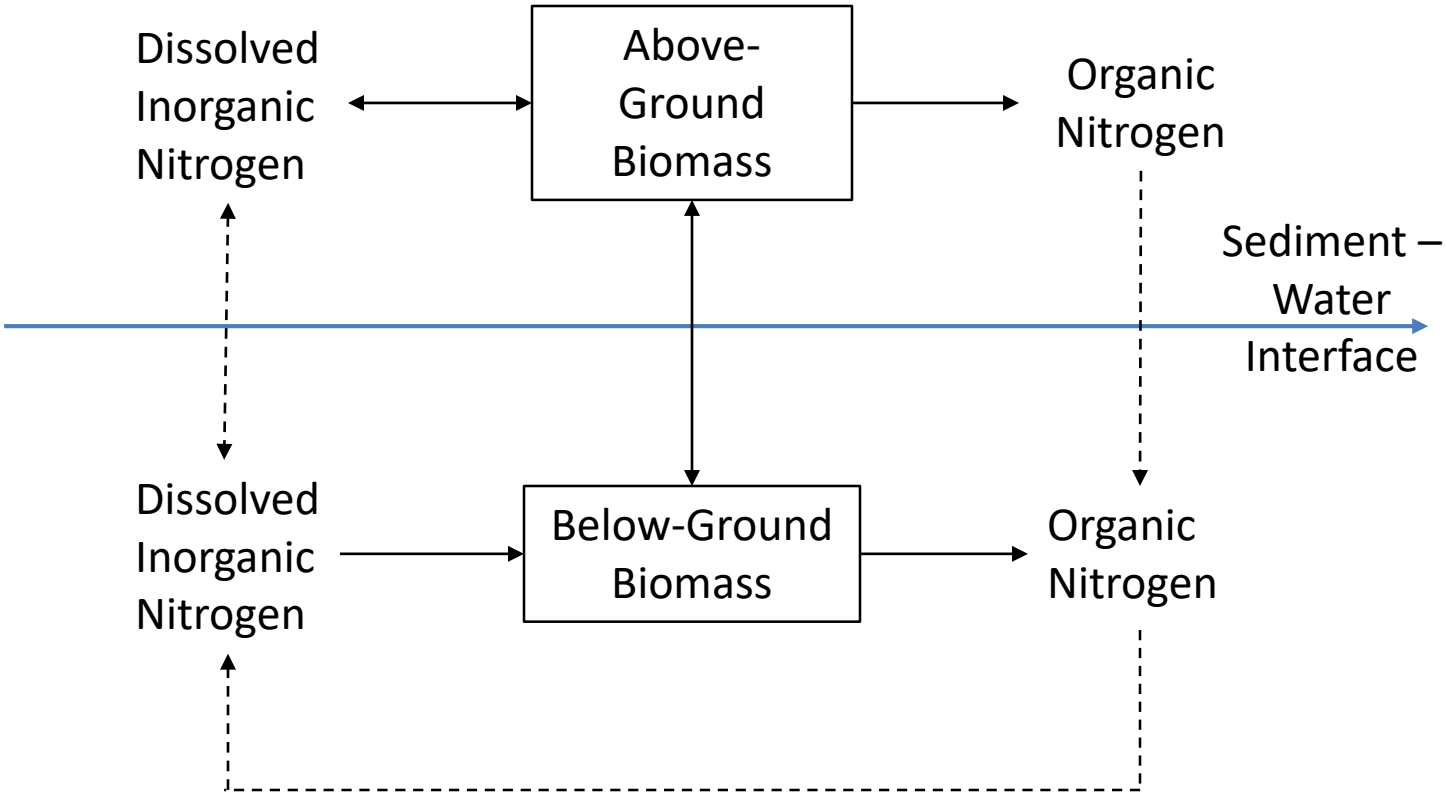
We quantify and can report out the indicated fluxes (CB1TF, vallisneria).

The Nitrogen Cycle



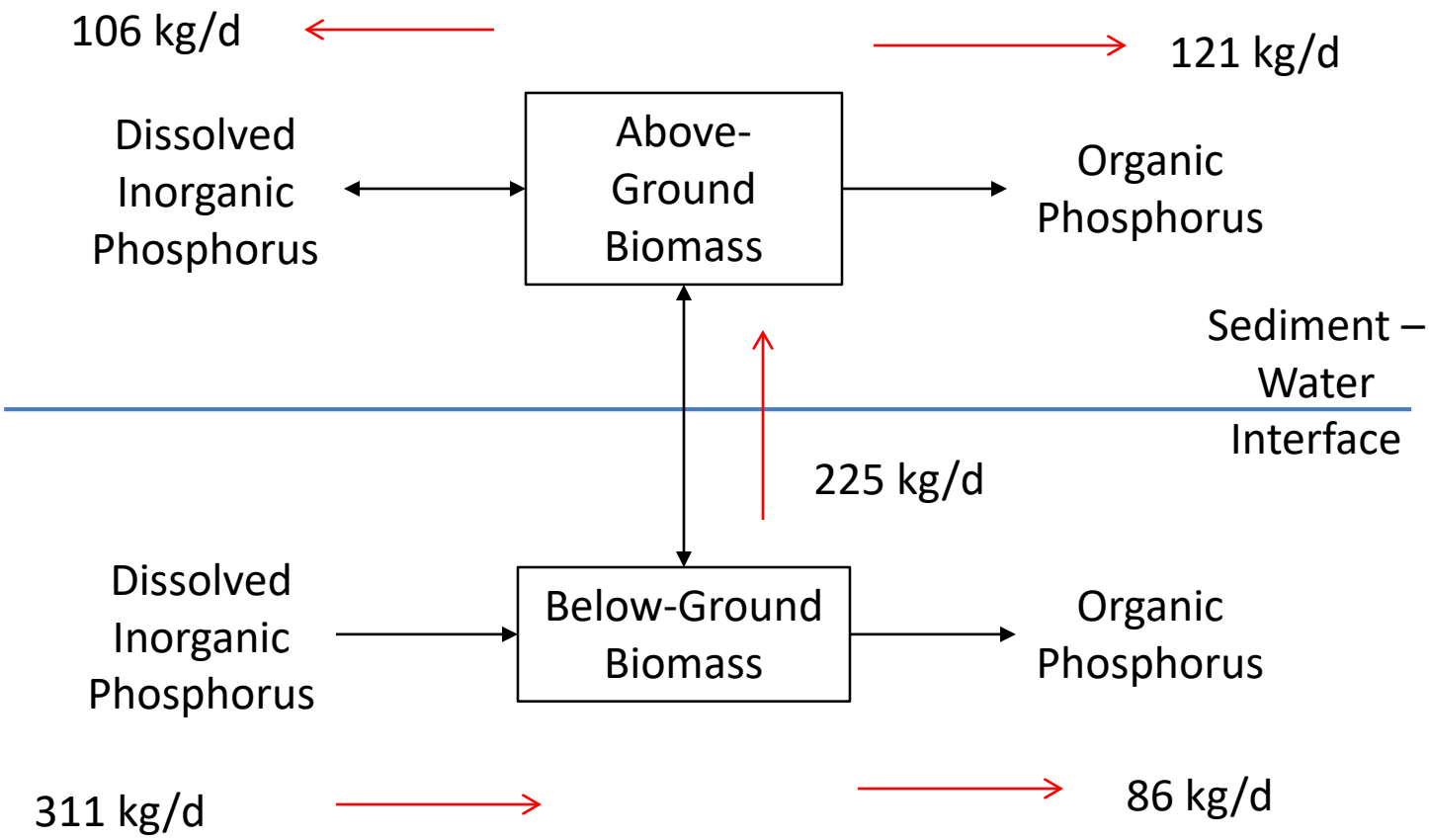
We quantify and can report out the indicated fluxes (TANMH, ruppia).

Complications



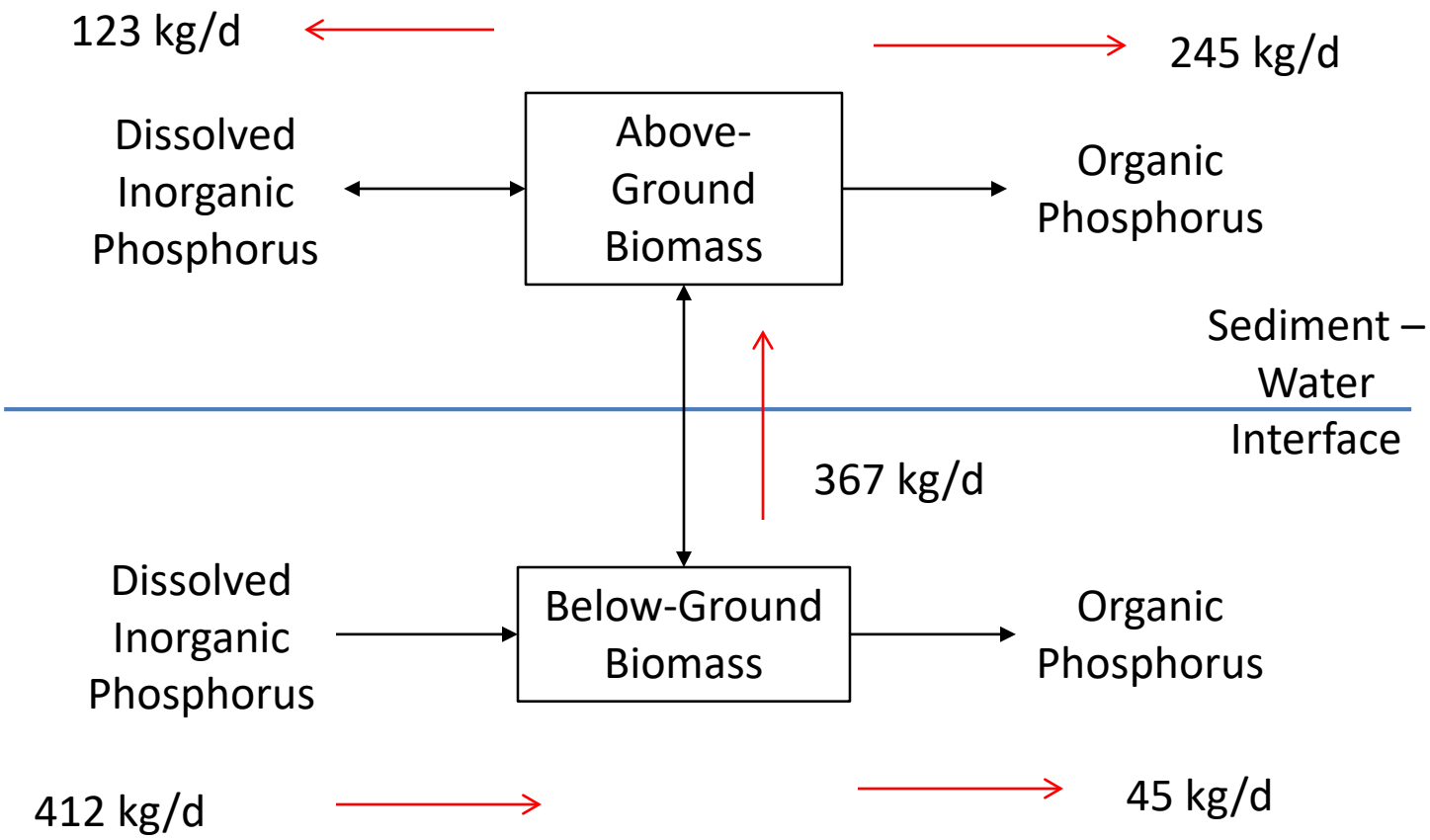
We quantify and can report out the additional fluxes but it is difficult to isolate the influence of SAV.

The Phosphorus Cycle



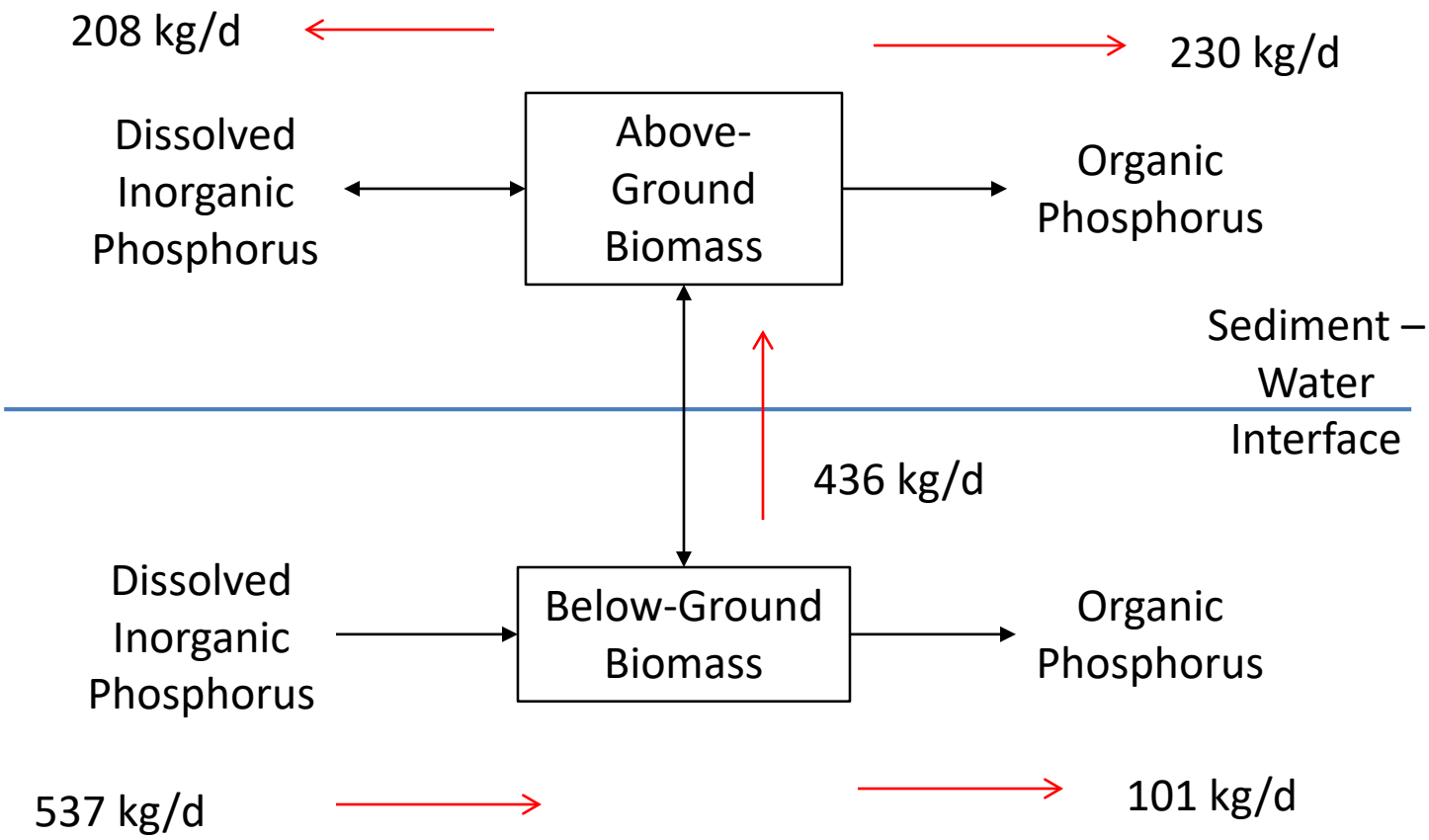
We quantify and can report out the indicated fluxes (CB7PH, zostera).

The Phosphorus Cycle



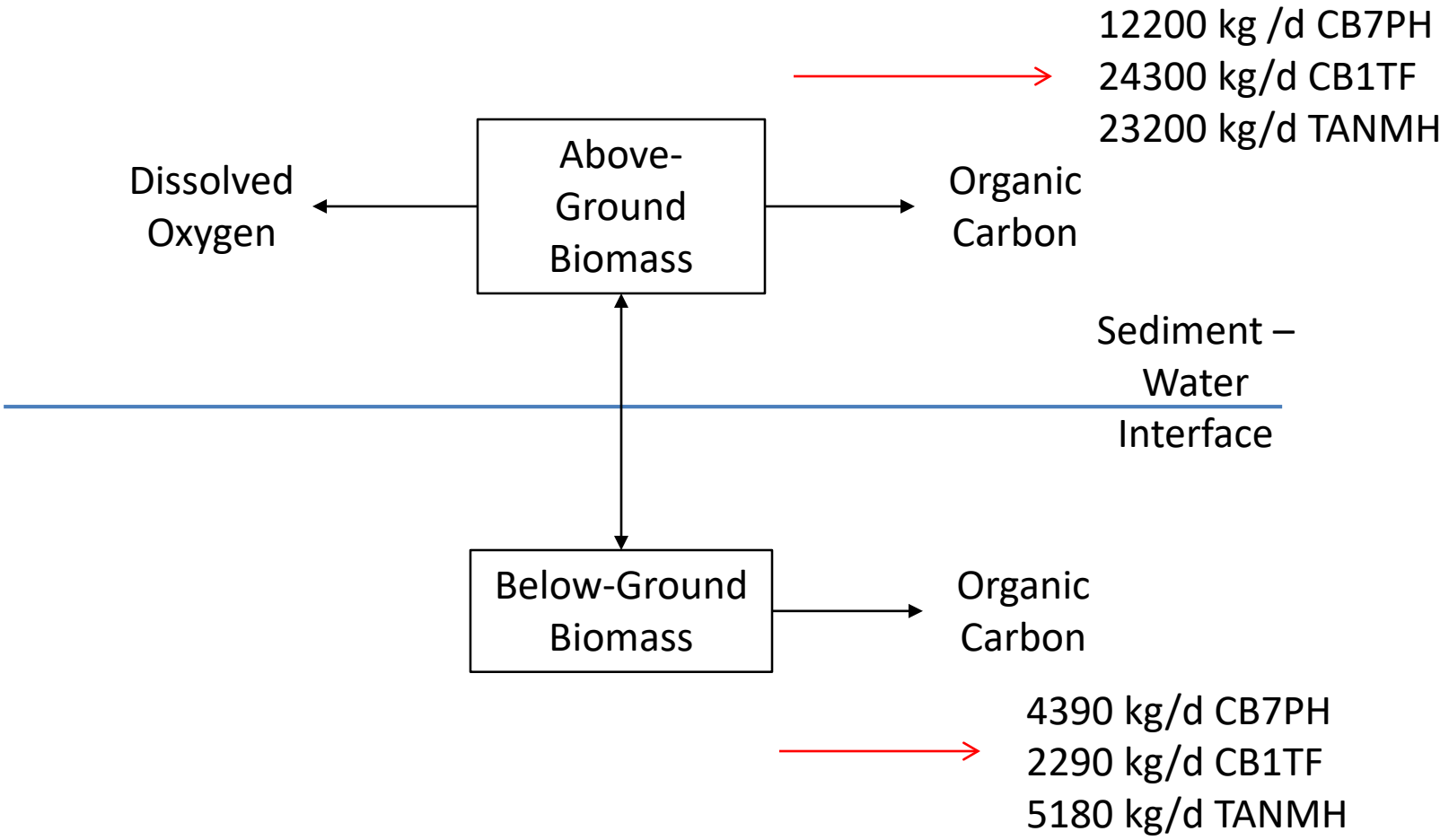
We quantify and can report out the indicated fluxes (CB1TF, vallisneria).

The Phosphorus Cycle



We quantify and can report out the indicated fluxes (TANMH, ruppia).

The Carbon/DO Cycle



We quantify and can report out the indicated fluxes (CB7PH).

Status

- We have the code installed and QC'd in at the Bay Program.
- We have a post-processor to organize the material into useful form.
- We need guidance as to what information is requested by the sponsor.

Next Steps?

- Compare SAV nutrient fluxes to local and system-wide external loads. Calibration and WIP3
- Run calibration with and without SAV. Examine water quality as indicated by stoplight plots etc.
- Run WIP3 with and without SAV. Examine water quality as indicated by stoplight plots etc.
- Perform detailed mass balance analysis of sediment water fluxes etc?