

Utah Lake Water Quality
Study
Science Panel Meeting
March 11-12, 2019
Salt Lake City, UT

Conceptual Model

Utah Lake Nutrient Criteria
Development Technical
Support



Update Conceptual Models (March 7, 2019)

- Highlights:

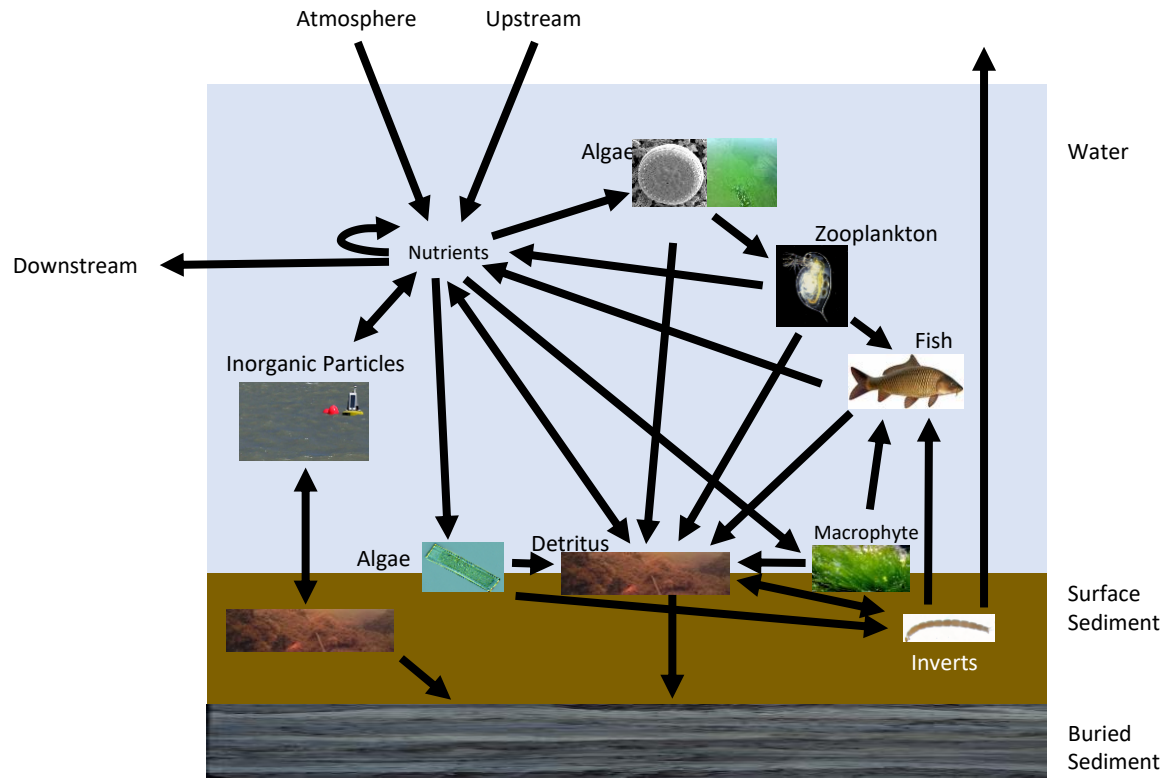
- Incorporated Science Panel Feedback

- Created a simplified model for public communication (can use to illustrate effects),
 - Emphasized food web role in both,
 - Added in pH,
 - Added in grazing,
 - Removed bioavailable/available language,
 - Removed DW use/Added agricultural use,
 - Clarified N transformations (including fixation) to N cycling model (but not to nutrient effects model for simplicity)

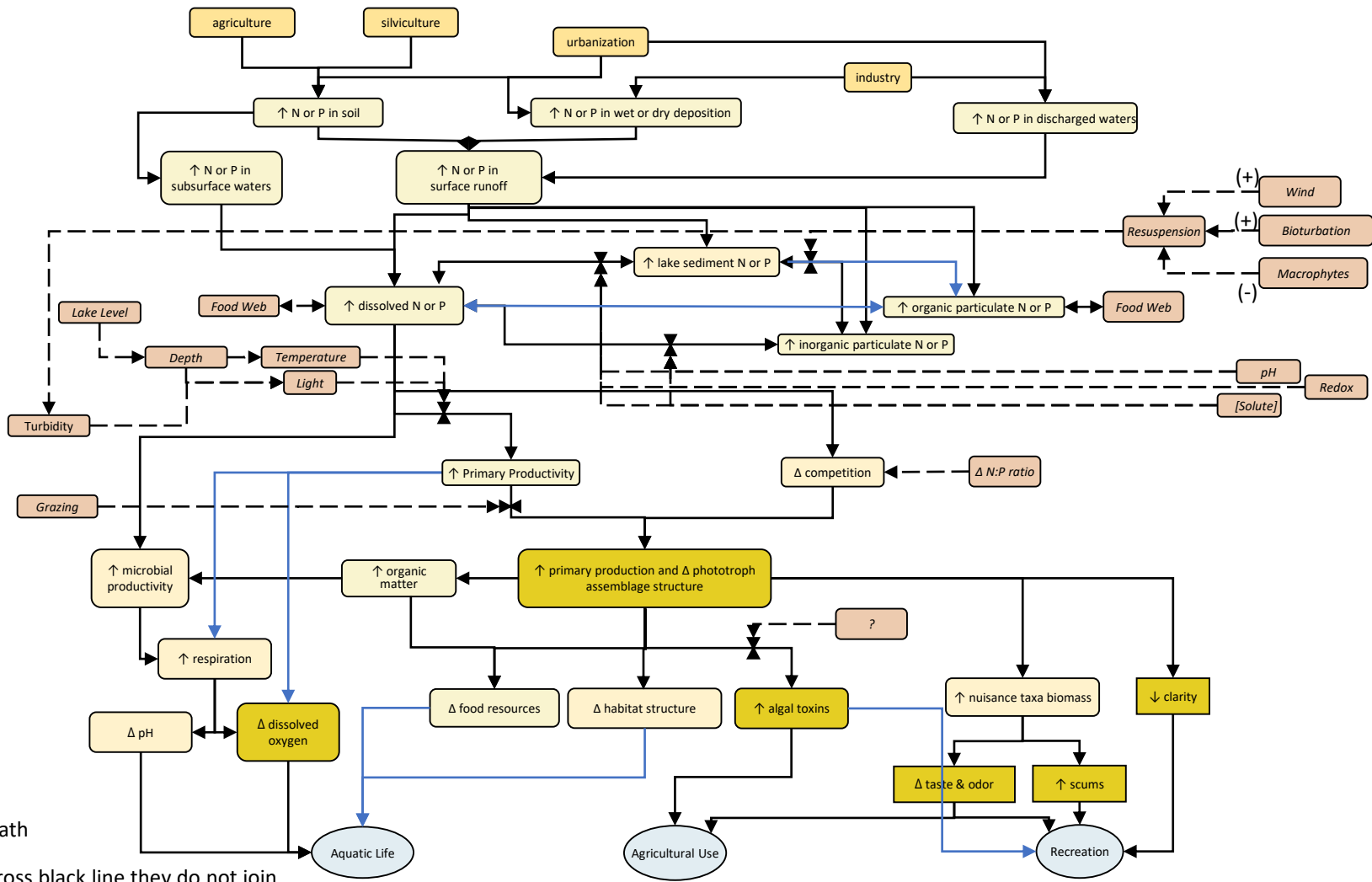
Update Conceptual Models (March 11, 2019)

- Make sure there are no critical missing pieces
- Any ways to improve models are welcome
- We will briefly discuss any proposed changes/edits

Simplified Nutrient Model

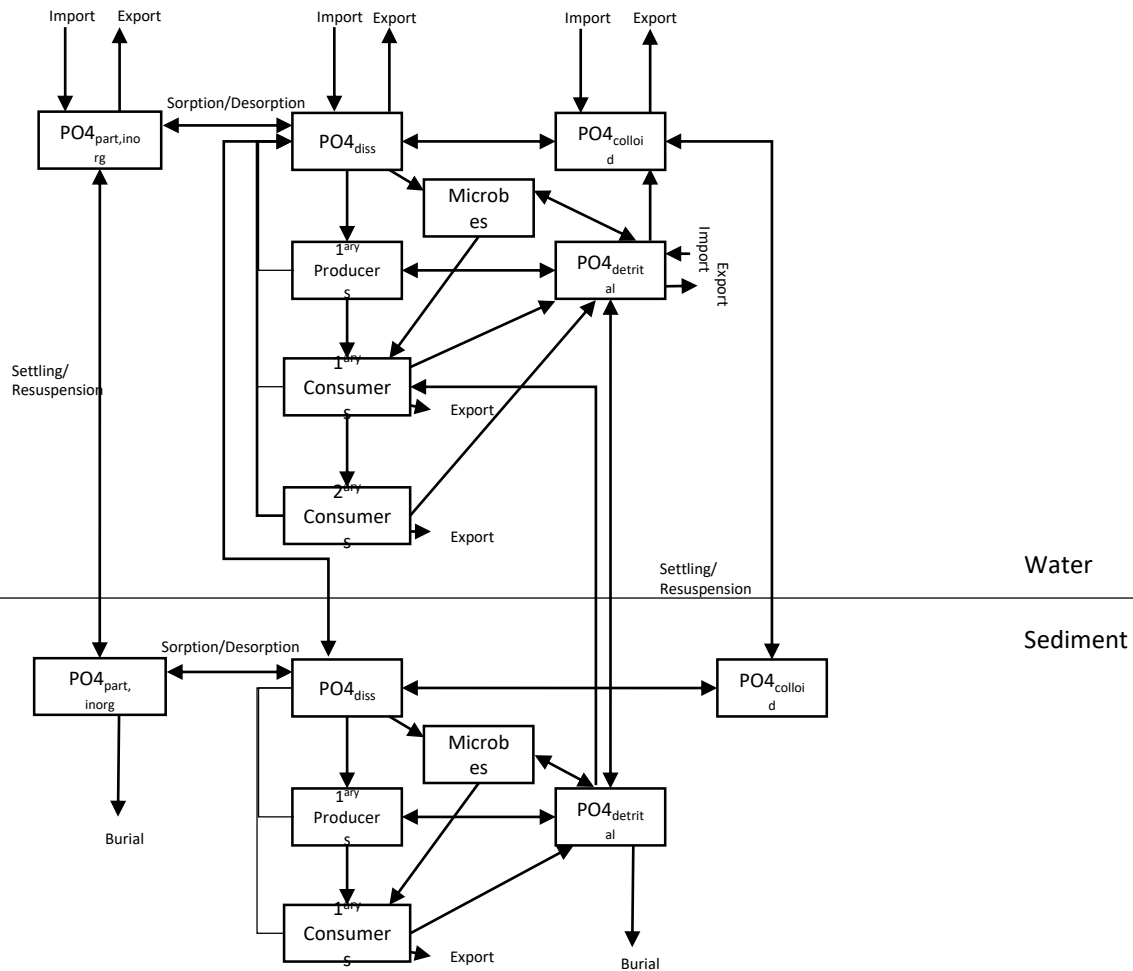


Nutrient Effect Model

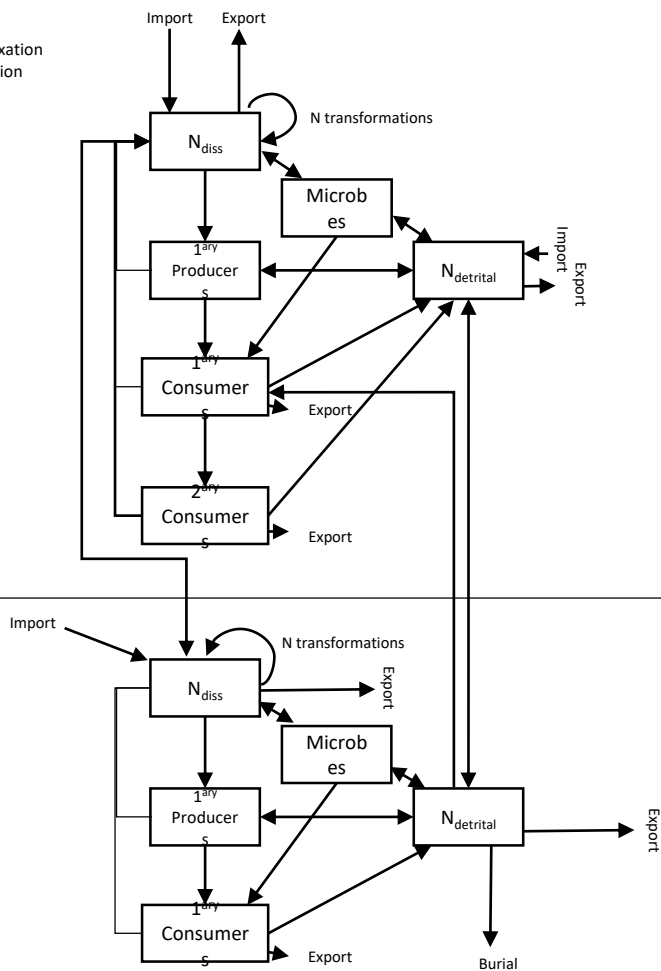


Blue lines used to cross black line they do not join

Nutrient Cycling Models



Import includes nitrogen fixation
Export includes denitrification



Water

Sediment

Next Steps

- Finalize Models
- Incorporate into Various Other Tasks