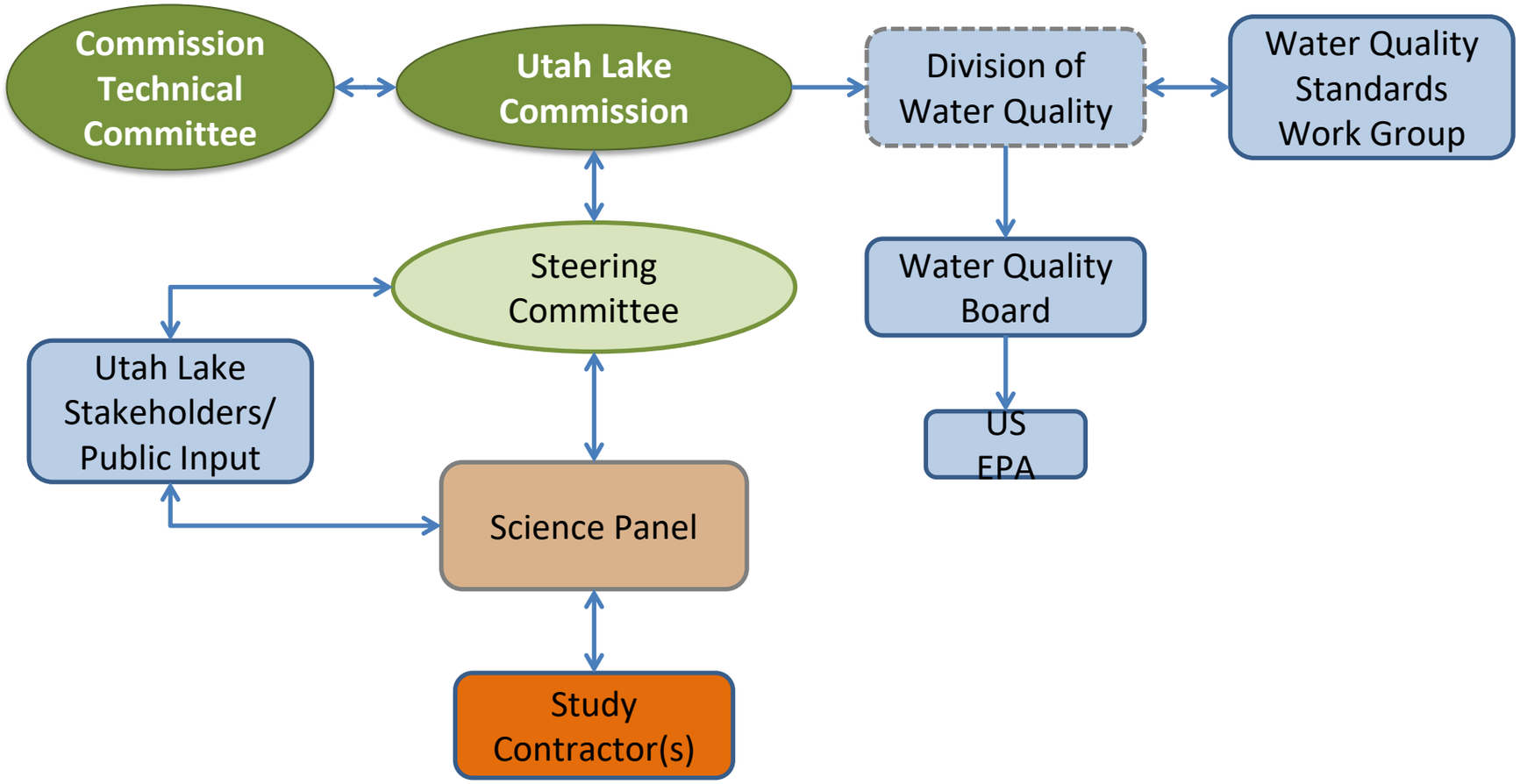
Introduction to Conceptual Mapping

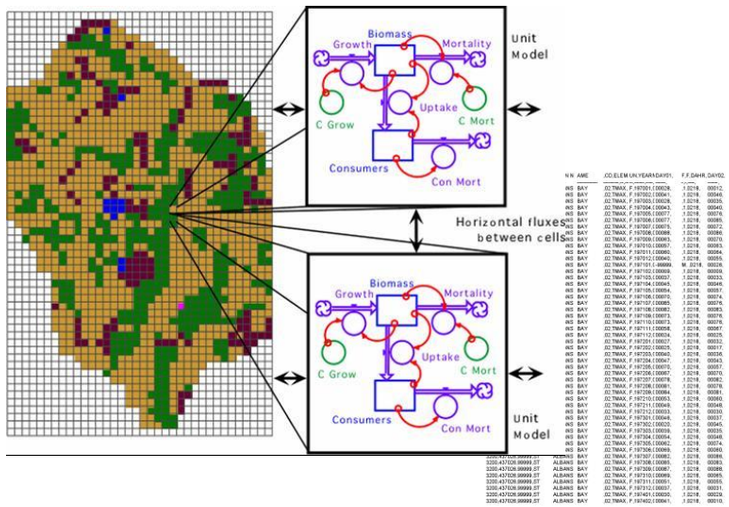
Conceptual mapping and potential role in process

Our Stakeholder Process



How Do We Get There???

Participatory Research



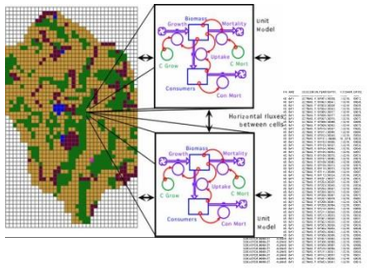
Stakeholders and Decision-Makers

Modelers and Scientific Researchers

Activities

Data collection and availability

Model development



Scenario development

Developing policy/mgmt alternatives

Strategies for Effective Participatory Research

1. Identify a clear problem
2. Early and often stakeholder interactions
3. Representative stakeholder group
4. Gain trust
5. Acknowledge conflict
6. Appropriate modeling tools
7. Incorporate stakeholder knowledge
8. Gain acceptance of methods before presenting results
9. Discuss uncertainty
10. Develop feasible and effective scenarios
11. Interpret results with group
12. Present results with group

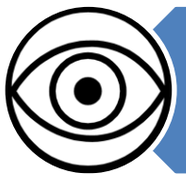
(Voinov and Gaddis 2008)

Challenges of Participatory Research

Schedule

Continuity

Trust

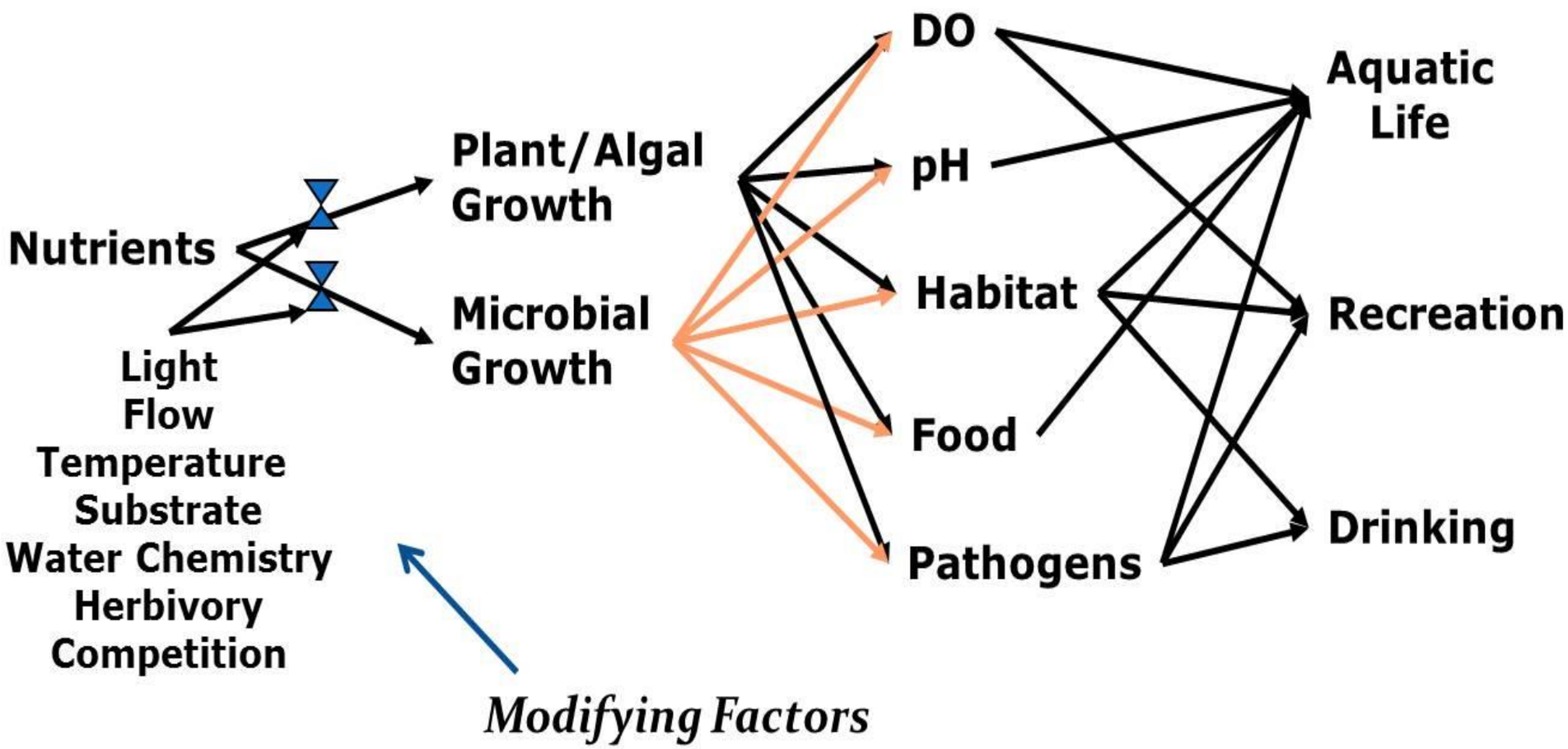


Focus

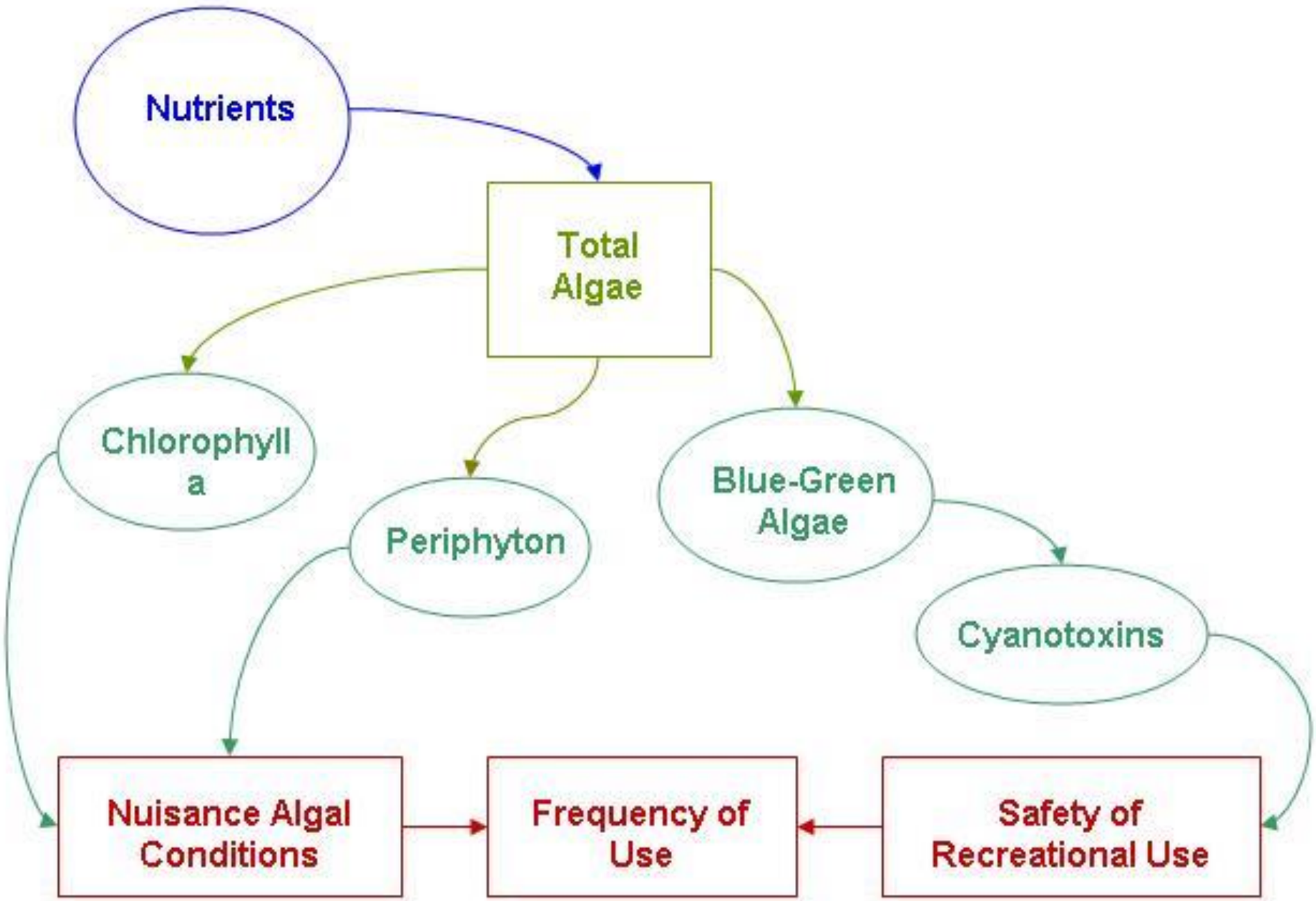
Uncertainty

Frustration

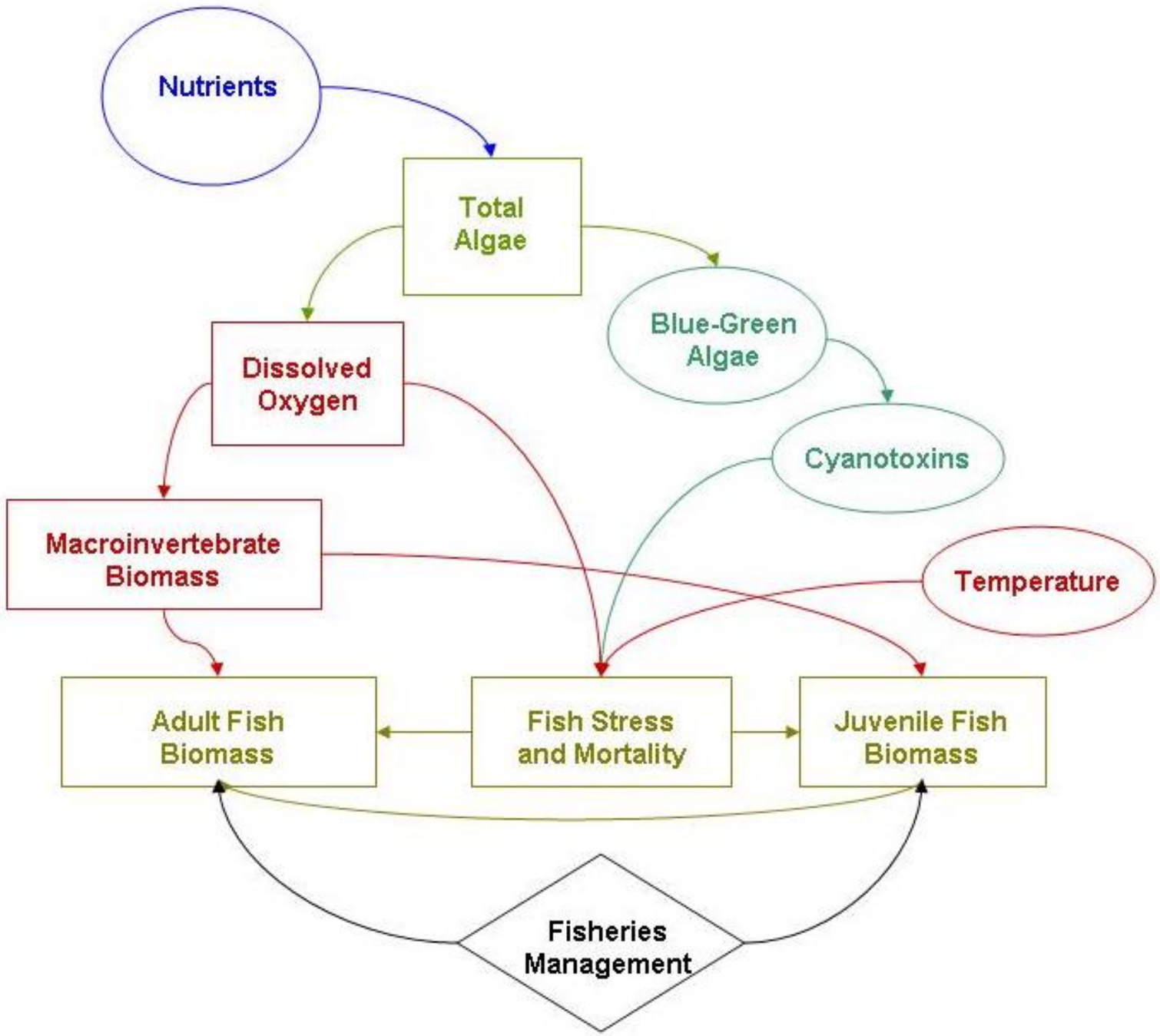
Nutrient links – beneficial uses (example)



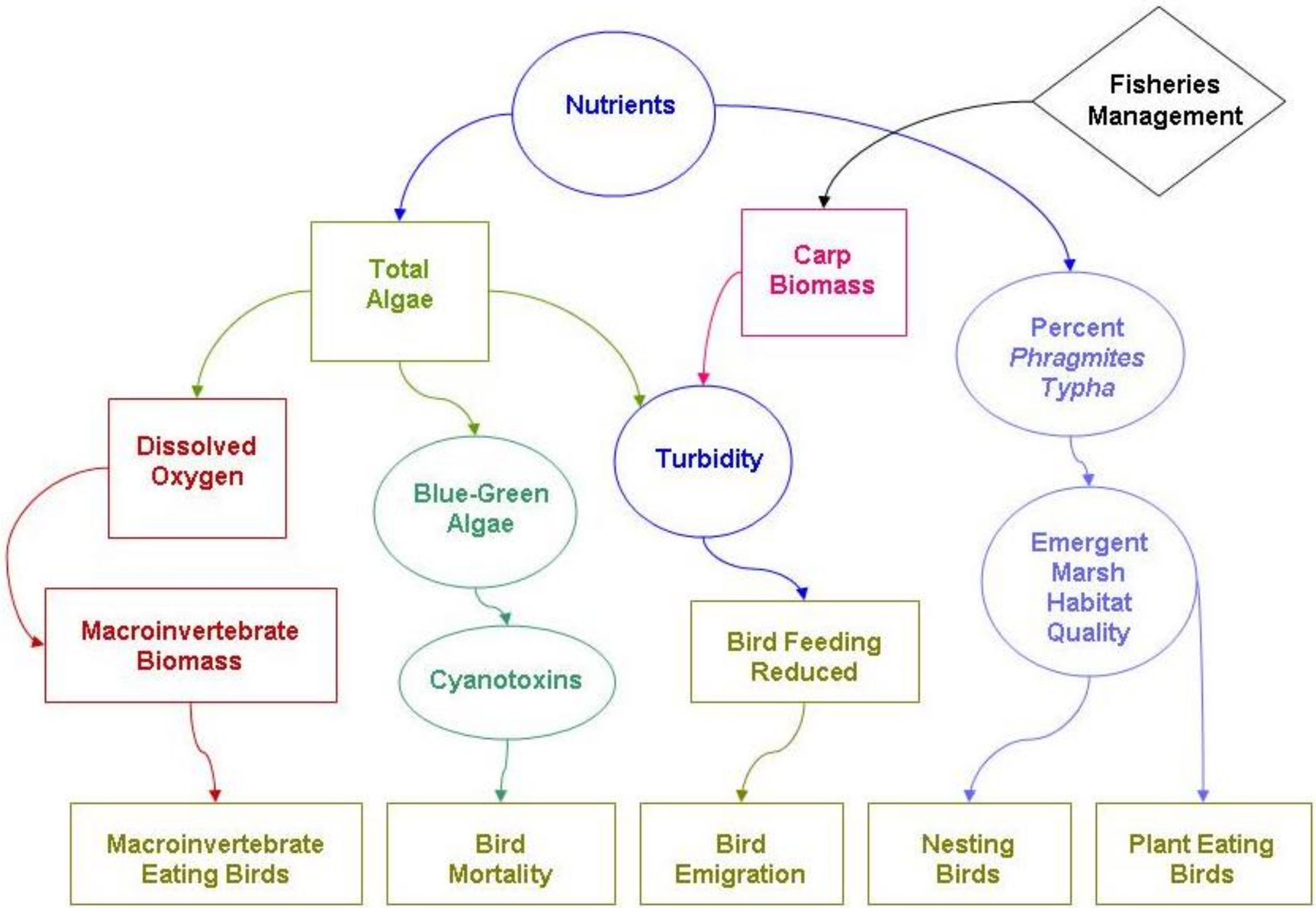
Recreation Use Linkages (example)

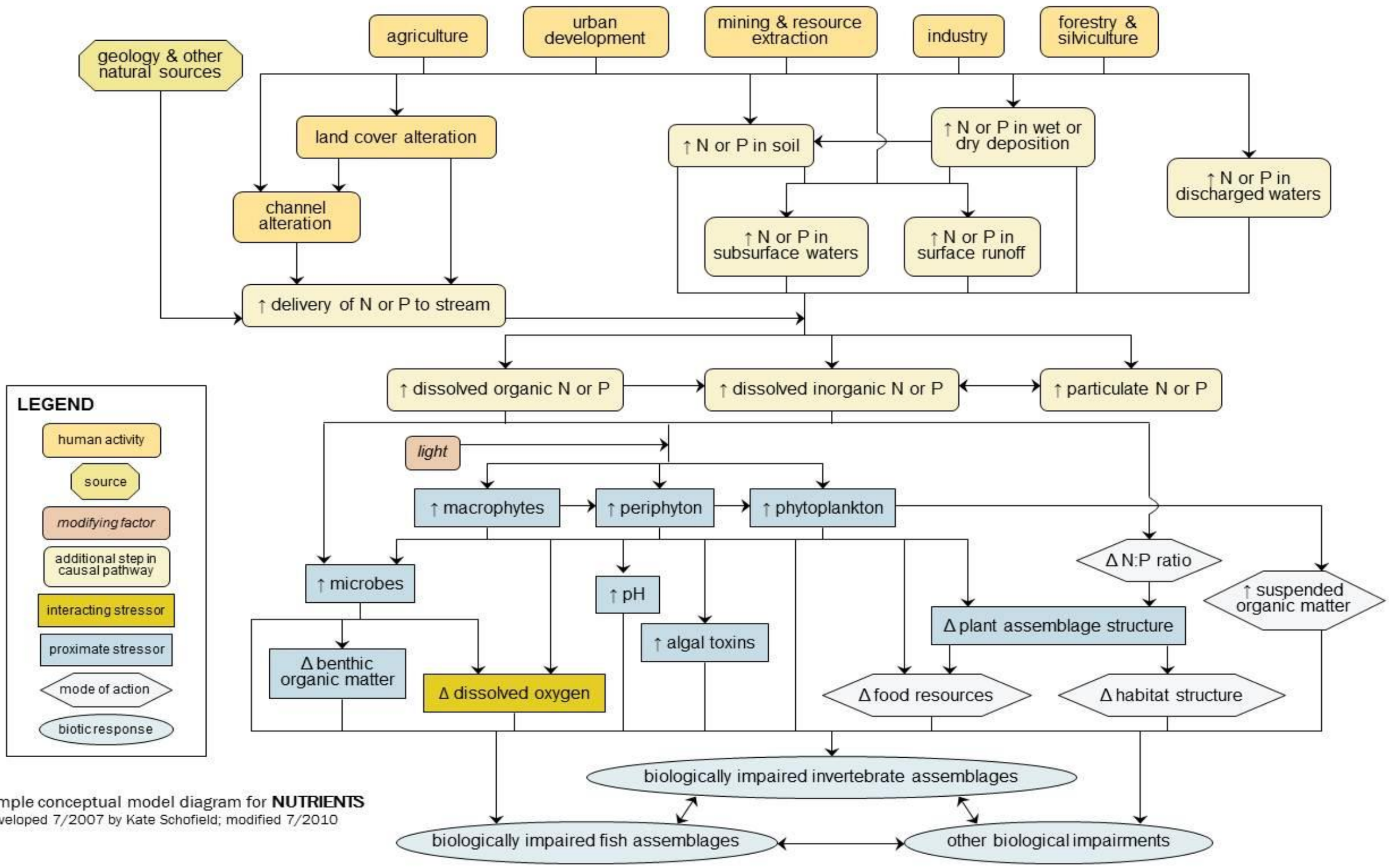


Aquatic Life Use Linkages (example)



Water-oriented Wildlife (example)





Simple conceptual model diagram for **NUTRIENTS**
Developed 7/2007 by Kate Schofield; modified 7/2010

Utility of Conceptual Mapping

Goals and Objectives

- Develop common understanding of project goals
- Identify key scientific questions

Identify sensitive factors and parameters

- Visually flag factors that make a difference
- Incorporate sensitivity analyses

Scientific Uncertainty

- Manage and communicate uncertainty

Influence of Management Controls

- Water management
- Ecologic constraints

Identify Data Gaps

- Identify areas to focus data collection

Discussion

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