

# **Technical Committee**

May 14, 2019

#### **Draft Regional Beneficial Use Testing Manual**

Environmental Evaluation and Management of Dredged Material for Beneficial Use: A Draft Regional Manual for the Great Lakes

- ✓ Objective is to support beneficial use of dredged material by developing a standard and agreed upon set of ground rules for evaluating the environmental suitability of dredged material for beneficial uses.
- ✓ Recognizing that beneficial use of dredged material projects support regional remediation and restoration efforts throughout the Great Lakes



May 14, 2019

#### **Draft manual time line**

- October 2016: Initial draft released to GLDT
- ➤ 2017: Responses to comments and discussions with GLDT (on all sections/topics except Section 5 aquatic placement)
- March 2019: Revised document and responses to comments on Section 5 provided to GLDT

What is a reasonable timeframe to collaborate on final revisions?



May 14, 2019

# **Next Steps:**

- ➤ Requesting GLDT review and feedback on all document revisions.
- > Collaborate on final revisions
- Major comments / revisions in Sections 4 (risk-based approach) and 5 (aquatic pathway evaluations)
- State-based guidance and policies are in Appendix B: Can we harmonize with federal agency approach?



May 14, 2019

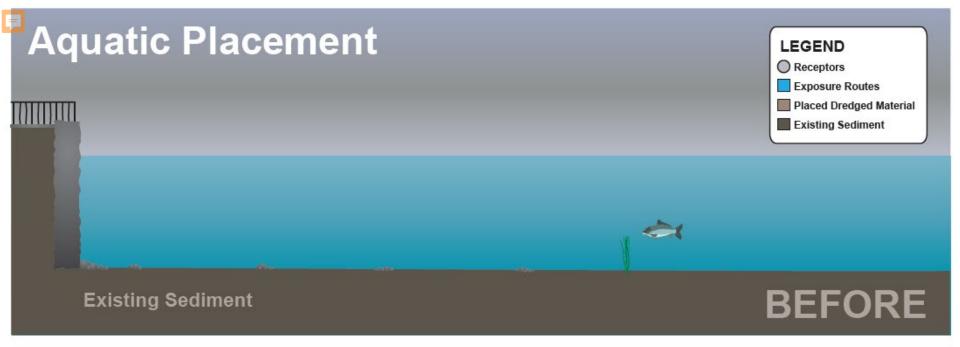
Summary of most significant comments and revisions



May 14, 2019

#### Risk based approach (Section 4)

- Concern regarding statements that "ecological and human health risks should be weighed in light of project benefits"
- Section 4 provides a framework for characterizing risks and benefits (consistent with USEPA guidance)
- Conceptual site models identify exposure pathways
- ➤ Tiered approach used to focus resources on exposures contributing to risks and/or associated with uncertainties
- ➤ Supports options for managing risks and uncertainties (elaborated on in Section 7)



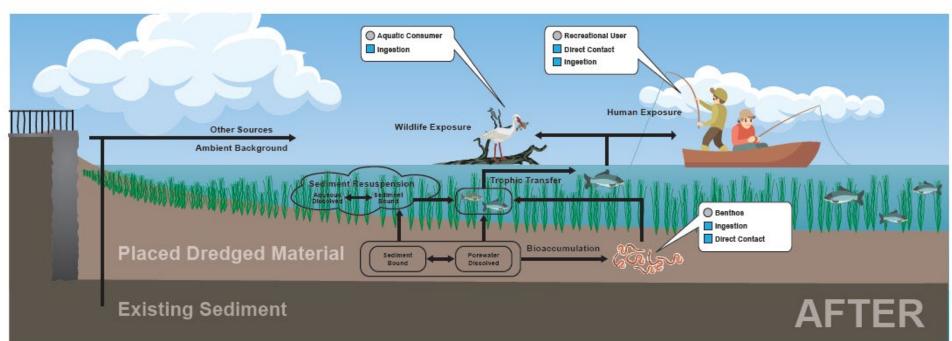


Figure 4-2. Generalized Conceptual Model for Dredging Operations at Beneficial Use Aquatic Placement Sites.



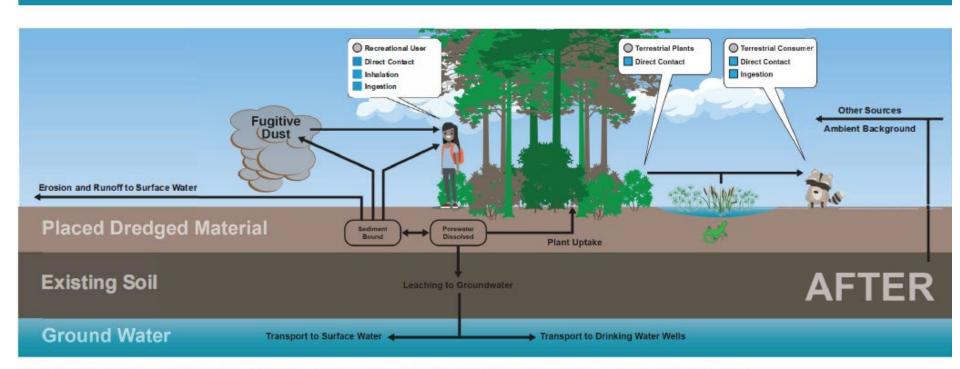
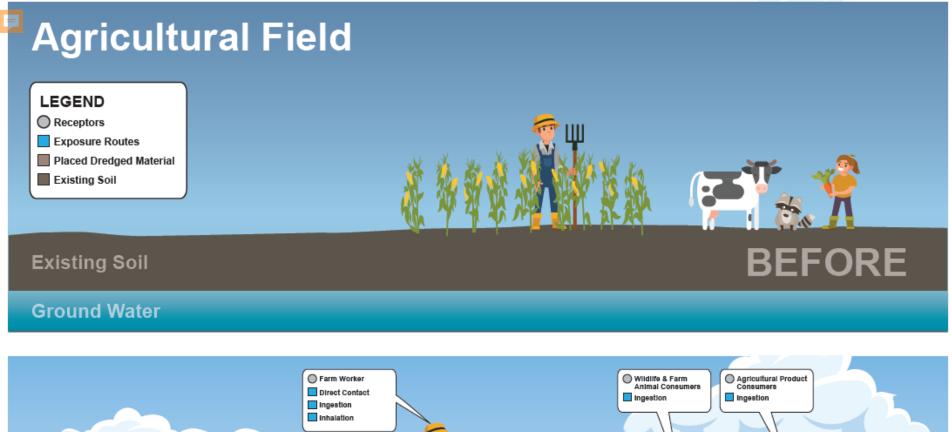


Figure 4-3. Generalized Conceptual Model for Dredging Operations at Beneficial Use Upland Placement Nature Preserve Sites.



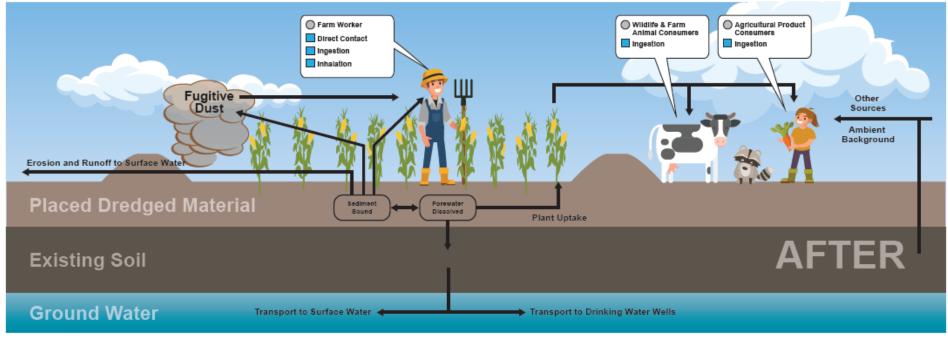


Figure 4-4. Generalized Conceptual Model for Dredging Operations at Beneficial Use Upland Placement Agricultural Field Sites.

# Upland Brownfield Placement Existing Soil Ground Water

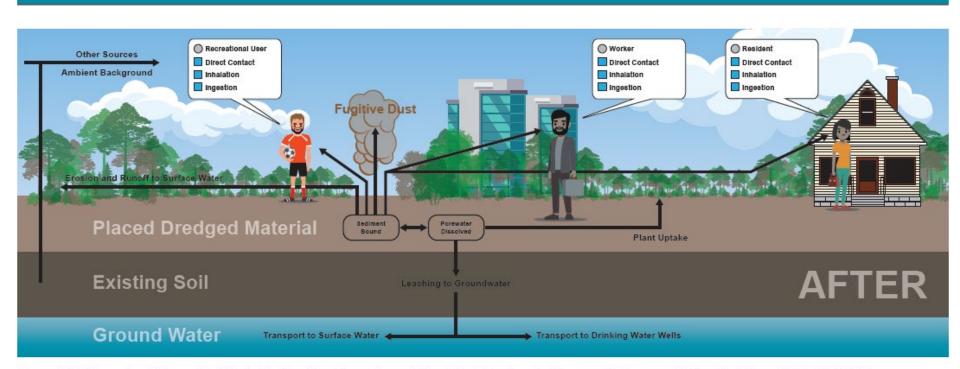


Figure 4-5. Generalized Conceptual Model for Dredging Operations at Beneficial Use Aquatic Placement Commercial, Residential, or Athletic Field Sites.



May 14, 2019

#### Aquatic pathway evaluations (Section 5)

- Concern regarding presentation of evaluations that had not been included in *Inland* or *Great Lakes Testing Manuals* (1998), especially regarding interpretation of bioaccumulation bioassays
- ➤ Sediment evaluation guidance directed at compliance with CWA Section 404(b)(1) Guidelines
  - Follows Inland and Great Lakes Testing Manuals (1998)
- ➤ 2016 draft included some quantitative approaches to inform the interpretation of bioaccumulation bioassays
- > 2019 revisions did not include the above approaches



May 14, 2019

#### **Thoughts?**