

**Objectives and Test Questions for the Presentation by Matt G. on
“Wetland Mitigation Concept to Final Design – Where Dreams and Reality Collide”**

Objective #1 – Learn general best practices for evaluating conceptual designs.

Objective #2 – Understand how designs become more refined as new information comes to light.

Objective #3 – Learn how to best remain engaged in the design process while working towards a final, implementable design.

Five test questions

1. What are some basic elements for a basis of wetland design? (select all that apply)

- A. Biotic and abiotic baseline data.
- B. Wetland functional goals and references.
- C. Anticipated outcomes.
- D. External influences.
- E. Cost-benefit analysis.

Answer: *All of the above*

2. What are some common sources of biotic and abiotic uncertainty in floodplain restoration? (select all that apply)

- A. Hydrologic and hydraulic data.
- B. Manning's n.
- C. Topographic data.
- D. Soils and geologic data.
- E. Ambient air quality data.

Answer: *A, C and D*

3. What are some common sources of new or refined biotic and abiotic data? (select all that apply)

- A. Site specific hydrologic or hydraulic data, observations or models.
- B. Site specific seed bank data.
- C. On the ground topographic data.
- D. Site specific soil data.
- E. More complete understanding of adjacent land uses/effects.

Answer: *A, C, D and E*

4. What are some external elements that can impact/influence your design? (select all that apply)

- A. Utilities.
- B. Mineral rights.
- C. Local agencies and “experts”.
- D. Permitting issues.

E. Water rights.

Answer: All of the above.

5. Which of the following are typically included in a final conceptual design? (select all that apply)

- A. Identification of access and ESA areas.
- B. Identification of cut and fill locations.
- C. Finalized cross sections.
- D. Watershed analysis.
- E. Specifications and technical elements.

Answer: A, B, C and E