

These are example criteria used in other (referenced) studies. The TAG should evaluate each criteria based on its applicability to Lake County wetlands.

**Flood Water Storage**

Functional Significance	Criteria	Comments/suggestions
High	<ul style="list-style-type: none"> <li>Wetlands along streams and rivers (PG, TT, MDEQ)</li> <li>Island Wetlands (PG, TT, MDEQ)</li> <li>Ponds that are throughflow, throughflow intermittent (MDEQ), bidirectional, and isolated (PG, TT-all four)</li> <li><b>Terrene Basin Isolated (MDEQ)</b></li> <li>*AND are above a size threshold (median wetland size in watershed) (PG, TT)</li> <li>Vegetated wetlands along Streams, Rivers, and Lakes, except Slope wetlands and Unvegetated wetlands (TNC)</li> <li>Ponds and Terrene Basin wetlands that are Inflow, Throughflow, or Throughflow Intermittent, except Slope wetlands and Unvegetated wetlands (TNC)</li> <li>&gt;=5 ac AND at least 50% outside of regulatory riverine floodplain AND potential for significant ponding exists (ADID)</li> </ul>	<ul style="list-style-type: none"> <li>Wetlands that are located in a mapped SFHA</li> <li>Include Fringe &amp; Basin wetlands associated with throughflow/throughflow intermittent ponds</li> </ul>
Moderate	<ul style="list-style-type: none"> <li>All wetlands meeting the “High” criteria but under the size threshold (PG, TT)</li> <li><b>Terrene Basin Isolated (PG, TT)</b></li> <li>Terrene &amp; Outflow/Outflow Intermittent (PG, TT, MDEQ)</li> <li>Other ponds (MDEQ)/Terrene wetlands associated with ponds connected to hydrography network (PG, TT)</li> <li>Terrene wetlands associated with Ponds (PG, TT, MDEQ)</li> <li>Wetlands adjacent to lakes not already ranked high (PG, TT, MDEQ)</li> <li>All other vegetated non-Slope wetlands (TNC)</li> </ul>	<ul style="list-style-type: none"> <li>Determine if the two “terrene ponds” criteria need to be separate</li> </ul>
Low	<ul style="list-style-type: none"> <li>All remaining (PG, TT)</li> </ul>	

NOTE: TNC used “Exceptional” and “High” as the significance categories for this function, which have been changed to “High” and “Moderate”, respectively, for this comparison

**Stream Baseflow Maintenance**

Functional Significance	Criteria	Comments/suggestions
High	<ul style="list-style-type: none"> <li>• All headwater (hw) wetlands                             <ul style="list-style-type: none"> <li>○ above a size threshold (PG,TT)</li> <li>○ 1<sup>st</sup> order &amp; above; 2<sup>nd</sup> order (MDEQ)</li> <li>○ 1<sup>st</sup> order only, except Outflow Intermittent, Throughflow Intermittent (TNC)</li> </ul> </li> </ul>	
Moderate	<ul style="list-style-type: none"> <li>• All wetlands meeting the “High” criteria but under the size threshold (PG, TT)</li> <li>• Lotic Stream &amp; River Floodplain and Fringe Wetlands (PG, TT, MDEQ), except Outflow Intermittent and Throughflow Intermittent (TNC)</li> <li>• Throughflow &amp; Outflow Ponds and Lakes (PG, TT, MDEQ, TNC)</li> <li>• Terrene Outflow wetlands associated with a pond (PG, TT, MDEQ, TNC)</li> <li>• Terrene Outflow wetlands outflowing to a stream (PG, TT, MDEQ, TNC)</li> </ul>	
Low	<ul style="list-style-type: none"> <li>• All remaining (PG, TT)</li> </ul>	

NOTE: TNC used “Exceptional” and “High” as the significance categories for this function, which have been changed to “High” and “Moderate”, respectively, for this comparison

**Groundwater Influence on Stream Recharge**

Functional Significance	Criteria	Comments/suggestions
High	<ul style="list-style-type: none"> <li>• Wetland with “0” depth to water table (annual or seasonal) and is Outflow or Throughflow (TT)</li> <li>• Use “DARCY” tool (Darcy’s equation) to determine areas of groundwater influence (MDEQ)*</li> </ul>	This category should be used to indicate wetlands that are heavily influenced by groundwater sources (groundwater discharge), NOT wetlands that are groundwater recharge areas
Moderate	<ul style="list-style-type: none"> <li>• All remaining wetlands with “0” depth to water table (annual or seasonal) (TT)</li> <li>• Use “DARCY” tool (Darcy’s equation) to determine areas of groundwater influence (MDEQ)*</li> </ul>	
Low	<ul style="list-style-type: none"> <li>• All remaining wetlands</li> </ul>	

\* This data not available for Lake County wetlands, as stated in TT report.

**Coastal Storm Surge Protection (watershed-specific)**

Functional Significance	Criteria	Comments/suggestions
High	<ul style="list-style-type: none"> <li>• Estuarine wetlands that are Basin, Island, or Fringe (Tiner 2011)</li> <li>• Lotic Tidal wetlands that are Island or Floodplain (Tiner 2011)</li> <li>• Marine wetlands that are Fringe or Island (Tiner 2011)</li> </ul>	Does not appear in other assessment work in Midwest US. SMC staff recommendation to add wetlands classified as "Great Lakes Coastal" to criteria under "Shoreline Stabilization"
Moderate	<ul style="list-style-type: none"> <li>• Other tidal wetlands (Tiner 2011)</li> <li>• Terrene wetlands, excluding Slope, that are Estuarine Discharge or Overwash (Tiner 2011)</li> </ul>	
Low	<ul style="list-style-type: none"> <li>•</li> </ul>	

**REFERENCES**

MDEQ: Michigan Dept. of Environmental Quality. 2011. Landscape Level Wetland Functional Assessment: Methodology Report.

TT: Tetra Tech. 2014. Final Methodology Memo for Wetland Management Opportunitites (Lower Fox, WI, & Upper Des Plaines, IL).

PG: PG Consultants. 2014. Methods and Results for a Geographic Information System Landscape Model of Wetland Functions in the Sandusky Subbasin (OH).

Tiner2011: Tiner, Ralph W. 2011. Predicting Wetland Functions at the Landscape Level for Coastal Georgia Using NWIPlus Data. USFWS.

TNC: The Nature Conservancy. 2012. The Duck-Pensaukee Watershed Approach (WI).