
WDO Amendment #21
§ 1000.02 Wetland Determination Report

C.2. Lake County Wetland Inventory map (**including ADID sites**)

Purpose: Important to show ADID sites for regulatory purposes (possible HQARs, stricter requirements).

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #22
§ 1000.02 Wetland Determination Report

C.5. Hydrologic Atlas (**U.S.G.S. Flood of Record map**)

Purpose: Clarify that these are one and the same source – Lake County online maps identify this layer under *Drainage* menu as “USGS Flood of Record”.

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #23
§ 1000.02 Wetland Determination Report

D. Army Corps of Engineers data sheets (~~March 1992 or most recent version~~ (**Midwest Region, most recent version**) with color photographs provided for representative upland and *wetland* data points;

Purpose: Update to make sure delineators are using the most current Corps-approved data sheet for our region.

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #24
§ 1000.02 Wetland Determination Report

E. A written description of the *wetland*(s) that includes a Floristic Quality Assessment as determined **using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version)**. ~~by methodology contained in Swink, F. and G. Wilhelm's Plants of the Chicago Region (1994, 4th Edition, Wilhelm, G. and L. Rericha's Flora of the Chicago Region, 2017, Indianapolis: Indiana Academy of Science).~~ Floristic quality assessments shall generally be conducted between May 15 and October 1. Assessments conducted outside this time frame may require additional sampling during the growing season to satisfy this requirement;

Purpose: Update to current methodology for floristic quality assessment determinations.

TAC Vote: 05/21/2020: Approved as modified 12-0-0

WDO Amendment #25**§ Appendix L, Section. L: High-Quality Aquatic Resources**

- L. Wetlands with a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 3.5 or a native floristic quality index value (FQI) of greater than or equal to 20 as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version). ~~Floristic Quality Index of 20 or greater or a mean C-value of 3.5 or greater: Reference Plants of the Chicago Region (F. Swink and G. Wilhelm, 4th Edition, Indianapolis: Indiana Academy of Science, 1994) Wilhelm, G. and L. Rericha's Flora of the Chicago Region, 2017, Indianapolis: Indiana Academy of Science. Mean C-Values, and the total number of species used to calculate the FQI, should be calculated for native plants only, as described in Plants of the Chicago Region (F. Swink and G. Wilhelm, 4th Edition, Indianapolis: Indiana Academy of Science, 1994). In Swink and Wilhelm, introduced plants have no C-value, rather than a C-value of 0.~~

Purpose: Update for new reference for plant classification (native vs. adventive) and consistency with definition in Corps-Chicago District Regional Permit Program Appendix A – High Quality Aquatic Resources (as revised 1-10-2020).

TAC Vote: 05/21/2020: Approved as modified 12-0-0

WDO Amendment #26**§ Appendix M: SMC-Approved Wetland Mitigation Banking Requirements**

- S. Species Composition: Species selected for the planting shall be native to Lake County (ref. Swink and Wilhelm, Plants of the Chicago Region, 4th Edition, 1994 Wilhelm, G. and L. Rericha's Flora of the Chicago Region, 2017, Indianapolis: Indiana Academy of Science) and shall be appropriate for the hydrologic zone to be planted. A minimum number of native perennial species proposed for establishment must be present within each plant community to meet certification standards, as follows:

Purpose: Update to the new reference for plant classification (native vs. adventive).

TAC Vote: 04/16/2020: 8-1-1

WDO Amendment #27**§ Appendix N: WDO Mitigation Requirements and Guidelines for Isolated Waters of Lake County Impacts**

- H.2.a. Floristic Quality: By the end of the performance period, a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 3.5 and a native floristic quality index value (FQI) of greater than or equal to 20 shall be achieved for each wetland community **as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version)**. ~~Native plant species coefficients of conservatism and the methods for calculating the native mean C-value and FQI are included in Swink, Floyd and Gerould Wilhelm, Plants of the Chicago Region (Indianapolis: Indiana Academy of Science, 4th Edition, 1994).~~

Purpose: Update to current reference for floristic quality assessment determinations.

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #28**§ Appendix N: WDO Mitigation Requirements and Guidelines for Isolated Waters of Lake County Impacts**

- H.2.b. **Mean Wetness Coefficient:** By the end of the performance period, the mean wetness coefficient (mean W) shall be less than or equal to 0 in each wetland community. Wetness coefficients are listed below, based on the ~~National Wetland Category~~ of each plant species designated in **the National Wetland Plant List - Midwest Regional Plant List (U.S. Army Corps of Engineers, most recent version)**. ~~Reed, Porter B., National List of Plant Species that Occur in Wetlands: North Central (Region 3), U.S. Fish Wildlife Service, Rep. 88(26.3, 1988).~~ The mean W for each wetland community is calculated by the following equation: Sum of wetness coefficients for all species/number of species.

Wetness Coefficients

<i>National Wetland Category</i>	<i>Wetness Coefficient</i>
Obligate (OBL)	-5 -2
Facultative Wetland + (FACW+)	-4
Facultative Wetland (FACW)	-3 -1
Facultative Wetland - (FACW-)	-2
Facultative + (FAC+)	-1
Facultative (FAC)	0
Facultative - (FAC-)	1
Facultative Upland - (FACU-)	2
Facultative Upland (FACU)	3 1
Facultative Upland + (FACU+)	4
Upland (UPL)	5 2

Purpose: Update the Wetness Coefficient values to be consistent with National Wetland Plant List - Midwest Regional Plant List (U.S. Army Corps of Engineers, most recent version).

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #29**§ Appendix N: WDO Mitigation Requirements and Guidelines for Isolated Waters of Lake County Impacts**

- H.3.a. **Floristic Quality:** By the end of the performance period, a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 2.5 and a native floristic quality index value (FQI) of greater than or equal to 15 shall be achieved for the buffer **as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version)**. ~~Native plant species coefficients of conservatism and the methods for calculating the native mean C value and FQI are included in Swink, Floyd and Gerould Wilhelm, Plants of the Chicago Region (Indianapolis: Indiana Academy of Science, 4th Edition, 1994).~~

Purpose: Update to current reference for floristic quality assessment determinations.

TAC Vote: 04/16/2020: Approved as modified 10-0-0

WDO Amendment #30**§ Appendix A: Definitions**

Isolated Waters of Lake County: All waters such as wetlands, ponds, streams (including intermittent streams), farmed wetlands, and wetlands that are not under U.S. Army Corps of Engineers jurisdiction. The limits of the Isolated Waters of Lake County extend to the ordinary high water mark or the delineated wetland boundary.

Purpose: Clarify that all stream classifications not regulated by the Corps as waters of the United States would be IWLC: perennial, intermittent and ephemeral.

TAC Vote: 04/16/2020: 9-0-1

WDO Amendment #31
§ 1005.01.E. Isolated Waters of Lake County Impacts (HQAR Documentation)

A statement ~~Current~~ **documentation** on the occurrence of any high quality aquatic resources on or adjoining the development.

Purpose: Require submittals with valid information on T&E species and wetland floristic quality for potential HQAR designation (i.e., EcoCat <2 years old; wetland delineations with FQA <3 years old).

TAC Vote: 04/16/2020: 10-0-0

WDO Amendment #33
§ Mitigation Hierarchy

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~~4007.03~~ **1009.01** Mitigation Hierarchy for Isolated Waters of Lake County

A. Size Requirements

1. If the required mitigation acreage is less than one and one-half (1.5) acres, mitigation requirements shall follow the mitigation hierarchy in ~~4007.03~~ **1009.01.B.2** through ~~4007.03~~ **1009.01.B.4**. If on-site mitigation increases an existing on-site wetland size to greater than or equal to one and one-half (1.5) acres, the applicant may use the mitigation hierarchy in ~~4007.03~~ **1009.01.B.1**.
2. If the required mitigation acreage is one and one-half (1.5) acres or greater, mitigation requirements shall follow the mitigation hierarchy in ~~4007.03~~ **1009.01.B.1** through ~~4007.03~~ **1009.01.B.4**.

B. Hierarchy

All mitigation shall occur in Lake County. Mitigation shall use the following hierarchy. Allowance to the next lower step is permitted only when justified through sequencing specified in 1005.01L and 1005.01M or when the higher step is not available or as specified in ~~4007.03~~ **1009.01.B.4**:

1. On-site wetland mitigation meeting the requirements of the project mitigation document.
2. In the same watershed as wetland impact: A U.S. Army Corps of Engineers Approved Wetland Mitigation Bank; or a SMC Approved Wetland Mitigation Bank; or off-site wetland mitigation meeting the requirements of the project mitigation document.
3. Outside of the watershed (at double the required mitigation acreage): A U.S. Army Corps of Engineers Approved Wetland Mitigation Bank; or a SMC Approved Wetland Mitigation Bank; or off-site wetland mitigation meeting the requirements of the project mitigation document.
4. SMC Wetland Restoration Fund. This mitigation option may only be used for wetland impacts where there are no available mitigation credits within the watershed and the corresponding fees and mitigation ratios shall be charged at the 'in-watershed' rate.

Purpose: Re-insert Mitigation Hierarchy per pre-WDO reformatting. This section was erroneously reformatted to incorrectly include only IWLC. The original formatting was applicable for both IWLC and WOUS.

5/21/20 TAC Vote: 05/21/2020: 12-0-0