July 15, 2008

Category 4c of Iowa's final 2006 Integrated Report (IR).

Category 4 waters: water is threatened or impaired but a TMDL is not needed due to one of the following:

Category 4c: threat or impairment is not caused by a "pollutant"

Waterbodies are listed hydrologically by major basin and by subbasin (I.e., by waterbody ID number).

IR Category	Waterbody ID Number	Waterbody Type	Waterbody Name	Segment Description	Impairment	Explanation
4c	IA 01-NEM-00115-L_0	Freshwater Wetland	Klum Lake	entire wetland	hydrological modification	drainage ditch near wetland tends to de-water wetland
4c	IA 01-TRK-0360_2	River	Roberts Creek	from Howard Cr. to Silver Cr (Clayton Co.)	habitat alterations	low IBI values attributed primarily to channel straightening
4c	IA 02-ICM-00145-L_0	Freshwater Wetland	Allen Green Refuge Marsh	entire wetland	hydrological modification	drainage ditch near wetland tends to de-water wetland
4c	IA 02-IOW-00860-L_0	Freshwater Wetland	Big Wall Lake	entire wetland	flow alteration	related to lack of ability to draw-down wetland to allow winter kill of common carp
4c	IA 03-NSK-0030_0	River	North Skunk River	from Sugar Cr. (Poweshiek Co.) to Snipe Cr. (Jasper Co.)	habitat alterations	low IBI values attributed primarily to channel straightening
4c	IA 04-EDM-0100_0	River	Little Buffalo Creek (aka North Buffalo Cr.)	mouth to unnamed tributary SSE of Buffalo Center	habitat alterations	low IBI values attributed primarily to channel straightening
4c	IA 04-LDM-0020_3	River	Des Moines River	from Cedar Cr. to Red Rock Dam	fish kills	operation of Red Rock Dam contibutes to problems with gas bubble trauma such that fish kills can occur
4c	IA 04-LDM-0210_1	River	White Breast Creek	from L. White Breast Cr. to Brush Cr. near Lucas	habitat alterations	low IBI values attributed primarily to channel straightening

IR Category	Waterbody ID Number	Waterbody Type	Waterbody Name	Segment Description	Impairment	Explanation
4c	IA 04-LDM-0212_0	River	South White Breast Creek	mouth to headwaters in Clarke Co.	habitat alterations	low IBI values attributed primarily to channel straightening and a variety of agricultrally-related impacts (e.g., removal of riparian vegetation and livestock-related impacts to stream banks).
4c	IA 04-RAC-01620-L_0	Freshwater Wetland	Little Clear Lake	entire wetland	exotic/invasive species	infestation with purple loosestrife
4c	IA 04-UDM-0124_0	River	Little Beaver Creek	mouth to Boone Co. tributary	habitat alterations	low IBI values attributed primarily to channel straightening
4c	IA 05-NOD-00415-L_0	Freshwater Lake	Binder Lake	entire lake	exotic/invasive species	presence of common carp (exotic species) and yellow bass (a native but nuisance species) led to decline of game fish populations
4c	IA 06-LSR-0108_0	River	Halfway Creek	mouth to Ida Co. tributary	habitat alterations	low IBI values attributed primarily to channel straightening and a variety of agricultrally-related impacts (e.g., removal of riparian vegetation and livestock-related impacts to stream banks).
4c	IA 06-WED-0030_0	River	Mosquito Creek	from Spring Cr. to Moser Cr. near Earling, Shelby Co.	habitat alterations	low IBI values attributed primarily to channel straightening
4c	IA 06-WEM-00380-L_0	Freshwater Wetland	Round Lake	entire wetland	hydrological modification	Channel degradation of the Missouri River along Iowa has contributed to de-watering of this floodplain wetland.

IR Category	Waterbody ID Number	Waterbody Type	Waterbody Name	Segment Description	Impairment	Explanation
4c	IA 06-WEM-00420-L_0	Freshwater Wetland	Blencoe Lake	entire wetland	hydrological modification	Channel degradation of the Missouri River along Iowa has contributed to de-watering of this floodplain wetland.
4c	IA 06-WEM-00422-L_0	Freshwater Wetland	Upper Blencoe Bend	entire wetland	hydrological modification	Channel degradation of the Missouri River along Iowa has contributed to de-watering of this floodplain wetland.
4c	IA 06-WEM-00450-L_0	Freshwater Wetland	Badger Lake	entire wetland	hydrological modification	Channel degradation of the Missouri River along Iowa has contributed to de-watering of this floodplain wetland.
4c	IA 06-WEM-00452-L_0	Freshwater Wetland	Rabbit Island Lake	entire wetland	hydrological modification	Channel degradation of the Missouri River along Iowa has contributed to de-watering of this floodplain wetland.

19 **Number of 4c waterbodies**