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| SUBJECT : | Correction to the Impaired Waters List 07010207-544, Reddy Creek (Marmon Creek), |
| DATE : | December 7th, 2015 |
|  |  |
| FROM : | Dereck Richter  Water Quality Monitoring Unit  Environmental Analysis and Outcomes Division  Minnesota Pollution Control Agency |
| PHONE : | (651) 757-2846 |

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The 2009 assessment of AUID 07010207-544, Reddy Creek (Marmon Creek), was found to be impaired due to low dissolved oxygen. Dissolved oxygen data has a three year data set from one site (S001-571) with a 19.2% exceedance rate as shown in Table 1. Reddy Creek (Marmon Creek) went through natural background review and it was placed in subcategory 4D and no follow-up evaluation occurred. The water body was move to Category 5 for DO impairment based on high percentage of agricultural land use in the immediate watershed as impaired for dissolved oxygen. This AUID was evaluated again during the 2015 assessment process. Five additional samples were collected in 2011 and 2012 and the AUID still showed dissolved oxygen exceedances (table 2).

During the 2015 assessment it was determined that aquatic life use methodology for stream assessment is not appropriate. AUID 07010207-544, Reddy Creek (Marmon Creek), is a short 200 foot WUID and it is likely backed up by Mille Lacs Lake, which could affect samples taken at S001-571.

As a result, it is recommended that a correction be made to the impaired waters list by removing the category 5 from AUID 07010207-544, Reddy Creek (Marmon Creek), and designating it as “not assessable” because aquatic life use methodology is not appropriate.

Figure 1. Site and Lake area. 

Table 1. AUID 07010207-544. Previous Dissolved oxygen data

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| --- | --- | --- | --- | --- | --- |
| **Data period:** | 2004, 2007, and 2008 | **Obs** | **Exceed** | **% Exceed** | **Use support** |
| **Listing data:** | May 2004 to November 2008 | 26 | 5 | 19.2% | NS |
| **Stations:** |  | **Obs** | **Exceed** |  |  |
| S001-571 (2004, 2007, and 2008) |  | 26 | 5 | 19.2% |  |

Table 1. AUID 07010207-544. Current Dissolved oxygen data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data period:** | 2004, 2007, 2008, 2011, and 2012 | **Obs** | **Exceed** | **% Exceed** | **Use support** |
| **Listing data:** | October 2004 to September 2012 | 31 | 7 | 22.6% | NS |
| **Stations:** |  | **Obs** | **Exceed** |  |  |
| S001-571 (2004, 2007, 2008, 2011, and 2012) |  | 31 | 7 | 22.6% |  |