



EXECUTIVE SUMMARY

Periodic Inspection Results for the Mississippi River – Sid Simpson System (Lost Creek Drainage & Levee District, Sanitary District of Beardstown, South Beardstown Drainage & Levee District and Valley Drainage & Levee District), Illinois Local Flood Control Project

The Sid Simpson System Local Flood Control Project is a federally authorized and non-federally operated and maintained rural/urban levee and associated works. The project levee system (Sid Simpson Flood Control Project / IL) is comprised of 4 local drainage or sanitary districts located in or near the City of Beardstown in Cass County, Illinois. The Sid Simpson System has a complex history of Federal involvement dating to 1928.

The four sponsors that comprise the Sid Simpson System are responsible for operating and maintaining of the system.

As a point of clarification, the Sid Simpson Flood Control Project / IL is made up of 4 segments: Lost Creek D&LD (LOST), Sanitary District of Beardstown (SDBD), South Beardstown D&LD (SBDT) and Valley D&LD (VALY). All 4 segments (LOST, SDBD, SBDT, and VALY) collectively form the Sid Simpson Flood Control Project / IL, and geographically function as one system. The LOST segment lies landward of Muscooten Bay on the left descending bank of the Illinois River between River Miles 88.9 and 90.0 and provides flood protection for approximately 3,300 acres of productive farm lands and improvements. The SDBD segment lies on the left descending bank of the Illinois River between River Miles 88.0 and 88.9 and provides flood protection for approximately 860 acres with a residential population of roughly 6,200. The SBDT and VALY segments lie on the left descending bank of the Illinois River between River Miles 79.0 and 88.0 and provide flood protection for approximately 10,500 acres of productive farmland and improvements.

The five year Periodic Inspection of the Sid Simpson System occurred between May 17 and July 22, 2010. The local sponsors show active response to operation and maintenance of the project; however, some deficiencies were noted and actions are required. The overall system rating recommended by the contractor who conducted the inspection was unacceptable based on the deficiencies identified in the report.

The Rock Island District received comments from the Sponsor in response to the draft Periodic Inspection Report. Those comments and responses were considered during the levee risk analysis used to determine the final inspection rating. Several deficiencies were determined to be temporary conditions allowing the rating of the system to be appropriately based on an engineering determination of risk.

The Rock Island District has determined that the existing departures from USACE national standards identified during the Periodic Inspection result in an appropriate rating of the levee system as **Unacceptable**. The Rock Island District rating supersedes the contractor's rating.

Issues that could impair the operation of the system and are in the most need of action:

- Relief well condition and the testing of the wells are unsatisfactory.
- Unwanted vegetation is present within the vegetation-free zone of the levee system as defined by ETL 1110-2-571.



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- Encroachments were observed to inhibit operation and maintenance and negatively impact the integrity of the levee.
- An eroded bank and accompanying loss of riprap by the Valley D&LD Pumping Plant.
- Rutting on the levee slope and insufficient sod cover in several locations.
- At Station 50+00SD, cracking and loss of concrete wall was observed at landside floodwall joint.
- Insufficient required documentation on multiple issues was observed.
- At the closure structure at Station 596+50V, there was sliding of the wall adjacent to closure structure that resulted in a separated water stop in the joint. There were also guard rails obstructing the closure structure slots.

The next annual Inspection will be scheduled after October 1, 2011, with periodic inspections currently scheduled every five years.