

Commissioners of said City adopted at a regular meeting held on April 9, 1968.

In witness whereof, I have hereunto set my hand and the seal of the City of Bismarck, North Dakota, this 11th day of April, 1968.

(SEAL)

ERWIN WEISENBURGER, *Deputy City Auditor.*

STATEMENT OF A. R. SHAW, MAYOR OF MANDAN, N. DAK., IN SUPPORT OF
H.R. 3402, JUNE 20, 1968

Gentlemen, this statement is presented to your Committee on behalf of the City of Mandan, North Dakota, by Mr. A. R. Shaw, President, Board of City Commissioners for said City.

The City of Mandan has recently completed a sewage treatment facility costing slightly over \$840,000, of which amount \$232,000 was an outright grant by the Federal Water Pollution Control Administration of the U.S. Department of Interior. The outfall line and the aeration ponds are located on the flood plains of the Missouri River and the Heart River, which has its confluence with the Missouri River three miles southwest of the treatment site.

The outfall line which is 4,000 feet long, empties into the Missouri River. The line extends from the aeration ponds to the right bank of the river. This was approved by the Omaha District, Corps of Engineers. During the course of construction in the fall of 1966 (November) the erosion was so rapid that emergency measures had to be instituted to preserve the outfall end. This was done by driving piling and anchoring the outfall end at considerable increase in costs.

The northerly impoundments of the Oahe Reservoir reach within three miles of the outfall site. Manipulations of flows from the Garrison Reservoir ranging from 30,000 second feet to zero flow create abnormal bank erosions and channel changes. These influences have varied from the bank cutting actions and erosions of the fall of 1966 to the present sand-bar block that has built up this spring.

The proposed work as outlined by representatives of the Corps of Engineers, Omaha District, will alleviate and correct the present deteriorating conditions. This work will also stabilize the outfall site to permit better hydraulic discharge characteristics.

Time is of the essence in this matter since upstream deterioration observed from the present outfall site on 9 April 1968 indicates that the present river flow can again begin its eroding action on a line that will cut behind (bank side) the head walls. When this happens, as it surely will under present conditions, the head-wall and anchor wall will disappear. The alignment and grade of the outfall line will be disrupted, interfering with the orderly discharge of treated sewage effluent. This will result in the flooding of crop lands with sewage effluent, if the effluent line is lost.

The practicability of the outlined work has been demonstrated in other reaches of the Missouri River, particularly around Sioux City, Iowa; Omaha, Nebraska; and Kansas City, Missouri.

The City of Mandan has passed a resolution indicating its willingness to assume the responsibilities normally and traditionally associated with the maintenance and operation of the facilities.

The undersigned is particularly grateful for the invitation extended by your Chairman to appear before this Committee. We in Mandan feel keenly about the need and early implementation of the proposed corrective and protective works.

I am attaching a copy of a resolution which the City of Mandan passed, urging passage of S. 537, which is similar to H.R. 3402, the bill now under consideration.

For the City of Mandan, North Dakota.

A. R. SHAW,
President, Board of City Commissioners.

RESOLUTION

Whereas, the city of Mandan, Morton County, North Dakota, has recently completed construction of a sewer outfall situated on the right bank of the Missouri River in Morton County, North Dakota; and,

Whereas, because of the erratic flow of the Missouri River the right bank of said river has begun to deteriorate between the Northern Pacific Railroad Company's main line bridge spanning such river and the confluence of the Heart River to such an extent that the city of Mandan may lose its sewer outfall installation; and,