



CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-2724

Public Works Department

Water Reclamation Division

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MEMORANDUM

TO: Terry Wolterstorff & City Council
FROM: David Van Cleave
DATE: 3 December 2013
RE: Violation warning letter from SD DENR

Terry,

The recently received warning letter from the South Dakota Department of Environment and Natural Resources references the violation that occurred on July 22nd, 2013. The violation was an exceedance of our daily fecal coliform limit. The South Dakota DENR sends out these letters quarterly to permit holders who have an effluent violation.

We believe that the high number was related to the under sizing our Ultraviolet disinfection system. *The high coliform count could not be attributed to a specific equipment failure or process upset.* As you may recall, we recently requested and initiated a project to increase the capacity of our disinfection system. On Wednesday November 27th, HDR received the go ahead to proceed with the ultraviolet disinfection portion of the Trickling Filter and Effluent Solids project. The intent is to have the design completed and the project bid out by June of 2014. Actual construction is slated to begin following the 2014 disinfection season which ends on September 30, 2014. This will allow the new system to be operational prior to the 2015 disinfection season which starts on May 1, 2015.

Another portion of the Trickling Filter and Effluent Solid project involves covering the discharge weirs of the end of plant clarifiers. The project should be completed prior to the 2014 disinfection season. The goal of this project will be to significantly reduce the amount of algae and solids produced at the end of the plant, which will also improve the reliability of the disinfection process.



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